

12 *Wh*-Expletives in Hindi-Urdu:  
13 The vP Phase  
14

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16 This article addresses *wh*-displacement and *wh*-expletive constructions  
17 in Hindi-Urdu, accounting for parametric variation in terms of the  
18 properties of the phase-defining heads C and v. This analysis provides  
19 an understanding of a systematic set of contrasts between Kashmiri  
20 and Hindi-Urdu that suggests that crosslinguistic variation may follow  
21 from properties of specifically the phase-defining functional heads. It  
22 is then possible to construct a unified account of the various strategies  
23 of forming long-distance *wh*-dependencies in the two languages.  
24  
25

26 *Keywords:* *wh*-movement, *wh*-expletive, Hindi-Urdu, Kashmiri, phase

27  
28 **1 Introduction**

29 In this article, I address *wh*-displacement and *wh*-expletive constructions in the Indic language  
30 Hindi-Urdu. I will consider these constructions in Hindi-Urdu alongside those in the related  
31 language Kashmiri, and I will suggest that a unified account of the various strategies of forming  
32 long-distance *wh*-dependencies in the two languages can be constructed.

33 There are two ways to form a long-distance *wh*-dependency in Hindi-Urdu. In the first,  
34 depicted in (1), the full *wh*-phrase that originated in the subordinate clause has been displaced  
35 into the matrix clause and is found in the canonical preverbal *wh*-position. The semantic correlate  
36 of this configuration is interpretation as a root question.  
37  
38

- 39 (1) Sita-ne *kis-ko* soca: ki Ravi:-ne \_\_\_\_ dekha:? [Hindi-Urdu]  
Sita-ERG who-ACC thought that Ravi-ERG saw  
'Who did Sita think that Ravi saw?'

44 In the second way of forming a long-distance *wh*-dependency, depicted in (2), the full *wh*-  
45 phrase appears in the preverbal *wh*-position in the subordinate clause. In the matrix clause, the  
46 minimal *wh*-word *kya:* appears in the preverbal position. The result is also a matrix reading.  
47  
48

- 49 (2) Sita-ne *kya:* soca: ki Ravi:-ne *kis-ko* dekha:? [Hindi-Urdu]  
Sita-ERG EXPL thought that Ravi-ERG who-ACC saw  
'Who did Sita think that Ravi saw?'

54 Superficially, (1)–(2) might appear very similar to long-distance *wh*-dependencies in Kash-  
55 miri, illustrated in (3)–(4). However, keep in mind when considering these data that Hindi-Urdu  
56 is typically analyzed as a verb-final, *wh*-in-situ language, and Kashmiri as a verb-second language  
57 with full *wh*-movement.<sup>1</sup>  
58

- 59 (3) Tse *kəm'* chu-y ba:sa:n ki Mohn-as dits kita:b? [Kashmiri]  
you who AUX think that Mohan-DAT gave book  
'Who do you think gave Mohan the book?'

- 60 (4) Tse *k'a:* chu-y ba:sa:n ki Mohn-as *kəm'* dits kita:b? [Kashmiri]  
you EXPL AUX think that Mohan-DAT who gave book  
61 'Who do you think gave Mohan the book?'

71 The earliest treatments of *wh*-movement assumed that such dependencies were of a potentially  
 72 “unbounded” span. Later in the course of research on *wh*-movement, it was argued that constitu-  
 73 ents were required to move through a sequence of intermediate positions, specifically through  
 74 the CP layer of each containing clause. Recent research has questioned whether CP is the only  
 75 intermediate landing site. The concept of the phase (Chomsky 2000) affords equal status to CP  
 76 and vP and therefore suggests that the edge of vP should be a forced stopping point for long-  
 77 distance movement as well. An observation supporting the local view of *wh*-movement is that  
 78 expletive elements in certain languages can be found in exactly those positions proposed as  
 79 intermediate stopping-off points, specifically in Spec,CP. If this is an accurate understanding of  
 80 *wh*-movement and its association with the appearance of expletives, then we should expect similar  
 81 effects wherever intermediate stopping-off points are postulated—in particular, at the edge of  
 82 vP.

83 To develop an understanding of constructions of the type (1)–(2) in Hindi-Urdu, I will bring  
 84 together three current strands of work on *wh*-dependencies. In the first strand of work (Simpson  
 85 2000, Manetta 2005b, 2006), it is argued that *wh*-expletives, much like expletives in the  
 86 A-movement system, are featurally deficient elements in that they possess only uninterpretable  
 87 features, lacking an interpretation (Chomsky 2000). When these *wh*-expletives are merged into  
 88 the specifier of a functional head, the *wh*-features on that head are then left free to enter into an  
 89 Agree relation with (henceforth, Agree with) an unraised *wh*-phrase in its domain. I will claim  
 90 here that Hindi-Urdu *wh*-expletives have precisely these properties and effects.

91 The second strand of research relevant here is a specific view of the vP phrase. This strand  
 92 argues, as mentioned above, that insofar as vP is a phase and v a phase-defining head, Spec,vP  
 93 may be as crucial an intermediate stopping-off point in the course of long-distance *wh*-movement  
 94 as Spec,CP (Chomsky 2005, Rackowski and Richards 2005, Bruening 2007). That is, the v head  
 95 has features relevant to *wh*-movement, and any *wh*-phrase occurring within the vP phase must  
 96 move first to the phase edge (Spec,vP) before interacting with any higher head.

97 The third strand of research that will prove to be of interest also concerns the heads that are  
 98 active in *wh*-movement. The account proposed here will lend support to the proposal that to some  
 99 significant degree intralanguage variation can be attributed to the featural properties of the phase-  
 100 defining heads (Chomsky 2005, Manetta 2005b). That is, it is the organization of *wh*-related  
 101 features on specifically the phase-defining functional heads C and v that determines many of the  
 102 characteristics of questions crosslinguistically.

103 The central claim of this article is that the sets of features driving *wh*-movement and *wh*-  
 104 expletive constructions in the two languages are quite similar. The contrasts between the two will  
 105 be accounted for as a difference in the properties of the phase-defining heads in each language.  
 106 I will argue that while the proposals introduced here incorporate many aspects of previous ap-  
 107 proaches, they provide a better overall understanding of the facts internal to Hindi-Urdu, allow  
 108 a better understanding of the contrasts with Kashmiri, and are better integrated theoretically. I  
 109 will also emphasize that the present account offers a solution to the long-standing puzzle of *wh*-  
 110 in-situ in Hindi-Urdu: why the *wh*-expletive construction exists at all.

## 111 2 *Wh*-Dependencies in Hindi-Urdu and Kashmiri

112 Unmarked word order in Hindi-Urdu is verb-final, and in a transitive sentence the subject typically  
 113 precedes the object.  
 114

(5) Hamid-ne pani piya. [Hindi-Urdu]  
 Hamid-ERG water drank  
 ‘Hamid drank water.’

118

(6) Bacci-ne mehma:n-ko phul pesh kiye. [Hindi-Urdu]  
 child-ERG guest-ACC flowers present AUX  
 ‘The child presented flowers to the guest.’  
 (Schmidt 1999:188)

126

127 Kashmiri, on the other hand, is a verb-second language, with a variety of phrase types potentially  
 128 appearing before the verb. (7a), for instance, is an unmarked word order, and (7b–d) are also  
 129 grammatical.  
 130

- (7) a. Aslam-an *dits* Mohn-as kita:b Ra:m-ini khətrɪ ra:th. [Kashmiri]  
 Aslam-ERG gave Mohan-DAT book Ram-DAT for yesterday  
 135 ‘Aslam gave Mohan a book for Ram yesterday.’  
 138 b. Mohnas *dits* Aslaman kita:b Ra:mini khətrɪ ra:th. [Kashmiri]  
 141 c. Kita:b *dits* Aslaman Mohnas Ra:mini khətrɪ ra:th. [Kashmiri]  
 144 d. Ra:th *dits* Aslaman Mohnas kita:b Ra:mini khətrɪ. [Kashmiri]  
 146 (Wali and Koul 1997:89)

147 Hindi-Urdu is often described as a *wh*-in-situ language. More accurately, in constituent  
 148 questions, the unmarked position for the interrogative phrase is immediately before the sentence-  
 149 final verb, regardless of the grammatical role that it bears (Schmidt 1999, Kidwai 2000, Bhatt  
 150 2003).  
 151

- (8) Kita:b-ko kis-ne paṛha:? [Hindi-Urdu]  
 book-ACC who-ERG read  
 154 ‘Who read the book?’  
 (9) a. Hamid-ne kya: paṛha:? [Hindi-Urdu]  
 Hamid-ERG what read  
 163 ‘What did Hamid read?’  
 b. Abhi kis-ko dekhta: hai? [Hindi-Urdu]  
 now who-ACC look AUX  
 ‘Who are you looking at now?’  
 168 (3/31/06, Paklinks)<sup>2</sup>

169 Hindi-Urdu is a language that permits relatively free scrambling of constituents, so for examples  
 170 like (5)–(6) and (8)–(9) a variety of other word orders are possible, bearing various interpretations.  
 171 Though they have been extensively investigated (Mahajan 1990, 1994, Dayal 1994, Kidwai 2000),  
 172 these alternatives will be of less interest here than the unmarked order. In section 4.2, I will  
 173 address the role played by scrambling in the formation of *wh*-questions in Hindi-Urdu.<sup>3</sup>

174 A Kashmiri *wh*-phrase must immediately precede the second-position verb. A contrastive  
 175 topic may also appear preverbally when a *wh*-phrase is present (Bhatt 1999).  
 176

- (10) a. Kəm’ he:v Shi:las nev kita:b ra:th? [Kashmiri]  
 who showed Sheila new book yesterday  
 ‘Who showed a new book to Sheila yesterday?’  
 182 (Wali and Koul 1997:12)  
 b. Rajan kəmis he:v nev kita:b? [Kashmiri]  
 Raj whom showed new book  
 ‘To whom did Raj show his new book?’  
 188 (Wali and Koul 1997:12)

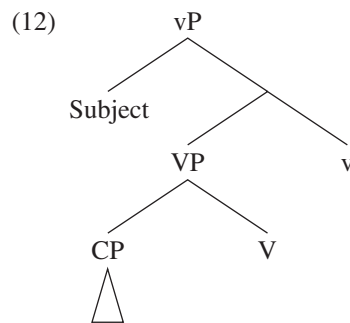
189 Embedded clauses in Hindi-Urdu are optionally preceded by the subordinating particle *ki*.  
 190 Finite embedded clauses appear obligatorily to the right of the verb, although all noun complements  
 191 appear to the left (Dayal 1996).  
 192

- (11) a. Vo ja:nti: hai [ki Anu a:yi:]. [Hindi-Urdu]  
 she know AUX that Anu came  
 193 ‘She knows that Anu came.’  
 b. \*Vo [ki Anu a:yi:] ja:nti: he. [Hindi-Urdu]  
 she that Anu came know AUX  
 203 Intended: ‘She knows that Anu came.’

203 There has been much discussion of these clauses in the literature, particularly with respect

204 to their status as complements. It has often been argued that finite clauses appearing to the right  
 205 of the selecting verb in Hindi-Urdu do not originate in that position, but have somehow been  
 206 extraposed (Davison 1988) or otherwise adjoined to CP/IP (Dayal 1996, Lahiri 2002). These  
 207 claims will be addressed in detail in section 5.3. It does seem, however, that these clauses behave  
 208 as though they are c-commanded by material in the matrix clause. For instance, even when a *wh*-  
 209 expletive is present in the matrix clause, a quantifier in the matrix clause can bind a pronoun in  
 210 the embedded clause (Mahajan 2000). If the apparent CP complement were adjoined, this would  
 211 not be expected since the *wh*-expletive *kya*: then would be occupying the sole complement position  
 212 associated with the verb. Bayer (1996) discusses this fact for both Bangla and Hindi-Urdu, noting  
 213 that while displacement of *wh*-phrases is possible from what he considers complement CPs, it is  
 214 impossible for CPs that are clearly adjuncts. I will then maintain that finite clauses are complements  
 215 in Hindi-Urdu, though they appear to the right of the verb. Additional arguments supporting the  
 216 view that these finite clauses are in fact complements are presented in section 5.3.

217 Given the facts above, I will assume that the transitive light verb (v) and the VP projection  
 218 are both head-final, with the verb taking nominal and CP complements to the left as in (12).  
 219



220

222 For sentences with finite-clause complements in Hindi-Urdu, I will assume that in the process of  
 223 postsyntactic linearization, the CP complement must be aligned to the right edge of the clause  
 224 (Bhatt 2003:16, Fox and Pesetsky 2005, Sabbagh 2007).<sup>4</sup>

225 When a verb does take a finite complement clause in Hindi-Urdu, it is possible for interroga-  
 226 tive phrases originating in the embedded clause to take matrix scope using one of two strategies:  
 227 the question phrase originating in the embedded clause can be displaced, appearing in the main  
 228 clause, or it can remain in its usual position in the embedded clause while the apparently meaning-  
 229 less question word *kya*: appears in the main clause (as in (1) and (2)).

230 Although both Hindi-Urdu and Kashmiri are underlying verb-final (Kashmiri, for instance,  
 231 features verb-final order in nonfinite clauses; see Bhatt 1999), Kashmiri has verb-second word  
 232 order on the surface. In fact, so far Kashmiri exhibits the typical profile of a verb-second language,  
 233 familiar from the extensive literature on this language type among European languages. Adopting  
 234 a common approach, I will assume here that the verb in Kashmiri is in the C head (Bhatt 1999,  
 235 Manetta 2005a).<sup>5</sup> *Wh*-material (*wh*-expletives and *wh*-phrases) in both Kashmiri and Hindi-Urdu  
 236 appears in the preverbal position. According to the assumed approach, in Kashmiri this position  
 237 is an  $\bar{A}$ -position above the C head, specifically Spec,CP (Bhatt 1999, Manetta 2005a). However,  
 238 it is clear that the preverbal position of *wh*-material in Hindi-Urdu must be significantly lower  
 239 than CP. If the verb itself is within vP in Hindi-Urdu, then *wh*-material is in an  $\bar{A}$ -position  
 240 relatively close to the verb.

241 At this point, I will introduce a hypothesis that will serve as a major theme for the remainder  
 242 of this article. I will suggest that Hindi-Urdu *wh*-material is not in situ, as has usually been  
 243 claimed, but instead in a distinguished position in the overt syntax that is lower than Spec,CP. I  
 244 will propose that this position is Spec,vP. Among those who have argued that the vP phase is a  
 245 possible stopping-off point for long-distance *wh*-movement are Rackowski and Richards (2005).  
 246 I want to begin with this basic intuition: a wide range of facts about Hindi-Urdu and its *wh*-  
 247 dependencies can be understood naturally if we take Spec,vP to be the position in which Hindi-  
 248 Urdu *wh*-material appears.

249 **3 The Position of *Wh*-Material in Hindi-Urdu**

250 Preverbal position is the unmarked position for *wh*-material in Hindi-Urdu, irrespective of the  
 251 grammatical role or argument status of the *wh*-phrase, as shown in (8)–(9) above (Schmidt 1999,  
 252 Kidwai 2000, Bhatt 2003). Since this is not consistent with unmarked declarative word order,  
 253 unmarked interrogative order is evidently the result of obligatory displacement. In this section,  
 254 I will offer empirical evidence in support of the hypothesis that *wh*-material in Hindi-Urdu is  
 255 displaced to a fixed position in the syntax, and this position is consistent with Spec,vP.

256 *3.1 Focused Constituents*

257 The grammaticalized focus position in Hindi-Urdu is the position immediately preceding the verb  
 258 in linear word order.  
 259

- (13) Main-ne kamre-meñ [inhi: ti:n laṛkoñ-ko] bhe:ja. [Hindi-Urdu]  
 I-ERG room-to [these.FOC three boys-ACC] sent  
 ‘I sent *these* three boys to the room.’  
 (Sharma 1999:10)

260

- (14) Kitabeñ kal main la:ya tha:. [Hindi-Urdu]  
 books yesterday I brought AUX  
 ‘I brought the books yesterday (It is *I* who brought the books yesterday).’  
 (Kidwai 2000:116)

268

271

273

274 There is thus a fixed syntactic position for focused constituents, whether interrogative or  
 275 noninterrogative.<sup>6</sup> Previous work assumes a dedicated focus phrase dominating VP (Kidwai 1995).  
 276 I suggest here that the word order pattern is consistent with that fixed position being Spec,vP in  
 277 Hindi-Urdu.<sup>7</sup>

278 Analogously, in Kashmiri the position for both interrogative and noninterrogative focus is  
 279 the same. Both types of constituents appear in preverbal position. The Kashmiri focus particle  
 280 *-ti* can only appear suffixed to constituents in this immediately preverbal position.  
 281

- (15) Hu:n-ti chu behna broñh panin ja:y goḍ sa:f kara:n. [Kashmiri]  
 dog-FOC AUX seat before self’s place first clean do  
 ‘Even the dog cleans his place before sitting.’  
 (Bhatt 1999)

282

- (16) \*?Panin ja:y chu hu:n-ti behna broñh goḍ sa:f kara:n. [Kashmiri]  
 self’s place AUX dog-FOC seat before first clean do  
 Intended: ‘Even the dog cleans his place before sitting.’  
 (Bhatt 1999)

283

- (17) \*Gary-ti kus chu-na ka:m kara:n? [Kashmiri]  
 home-FOC who AUX-NEG work do  
 Intended: ‘Who doesn’t work even at home?’  
 (Bhatt 1999)

286

302 In Manetta 2006, I developed an account in which both interrogative and noninterrogative focused  
 303 constituents appear in Spec,CP in Kashmiri.

304 It appears that focused constituents, whether interrogative or not, preferentially appear prever-  
 305 bally in Hindi-Urdu and Kashmiri. The account presented here attributes the position of focused  
 306 material in each language to the properties of the phase-defining heads C and v, respectively. In  
 307 effect, what we see is the same clausal topology in Kashmiri and Hindi-Urdu, lower in Hindi-  
 308 Urdu (on the v head) and higher in Kashmiri (on the C head).

309 *3.2 Adverbs*

310 Adverbs that are typically analyzed as adjoining to vP, such as ‘always’, can appear before the

311 verb and the direct object or *wh*-phrase in an unmarked Hindi-Urdu sentence, as in (18)–(19)  
312 (Schmidt 1999:190). However, it is also possible for the adverb to follow the question word, as  
313 in (20).  
314

(18) Vo mujhe hame:sha cai pil-a:ta hai. [Hindi-Urdu]  
he me always tea drink-CAUSE AUX  
318 'He always has me drink tea.'

(19) Vo a:p-ko hame:sha kya: pil-a:ta hai? [Hindi-Urdu]  
he you-DAT always what drink-CAUSE AUX  
325 'What does he always have you drink?'

(20) Vo a:p-ko kya: hame:sha pil-a:ta hai? [Hindi-Urdu]  
he you-DAT what always drink-CAUSE AUX  
337 'What does he always have you drink?'

332 One could argue that in (18) and (19), both the direct object and the interrogative pronoun could  
333 be in their base positions. However, in (20) it appears that the *wh*-word cannot be in situ.

334 These observations fall into place naturally on the proposal that in both (19) and (20), the  
335 *wh*-word has moved to Spec,vP. If the positioning requirement for this class of adverbs is that  
336 they attach to a complete vP, that requirement can be met at two derivational points on present  
337 assumptions: either (a) after both specifiers have been introduced, or (b) after the external argument  
338 has been introduced but before the second specifier (the *wh*-element) has been merged. The first  
339 alternative yields (19), the second (20).<sup>8</sup>

340 It is unclear how we might account for (20) on the assumption that the *wh*-phrase is in situ.  
341 However, some might object that (20) is simply evidence of scrambling of the *wh*-phrase out of  
342 its (in-situ) position as the complement to V and into some higher position. In essence, this is  
343 not substantively different from what I propose here: that the *wh*-phrase arrives at its surface  
344 position in (19) and (20) through movement out of the VP. However, there is another, related  
345 fact that indicates that the position to which *kya*: 'what' has moved in (20) has some special  
346 status.

347 Chandra (2005), citing Mahajan (1990), claims that when an adverb like *jaldise* 'quickly'  
348 appears following a nonagreeing direct object, the object requires focal stress.  
349

(21) Sita *ka:m* jaldise karti: thi:. [Hindi-Urdu]  
Sita work quickly did AUX  
350 'Sita worked quickly.'

354 This is in contrast to (22), where *ka:m* 'work' need not receive focal stress (see also Schmidt  
355 1999:190).  
356

(22) Sita jaldise *ka:m* karti: thi:. [Hindi-Urdu]  
Sita quickly work did AUX  
360 'Sita worked quickly.'

361 Under the account proposed here, *ka:m* 'work' in (21) is a focused phrase appearing in Spec,vP.  
362 The adverb can be adjoined before the object has shifted here for the purposes of focus. This  
363 suggests that when a *wh*-phrase or direct object appears immediately to the left of the vP-adjoined  
364 adverb, it has been displaced to a specific  $\bar{A}$ -position at which it checks focus-related features  
365 (interrogative or noninterrogative).<sup>9</sup> I will take this evidence to support the claim that interrogative  
366 and noninterrogative focused constituents share a fixed position and to indicate that that position is  
367 consistent with an  $\bar{A}$ -position on the edge of vP (Spec,vP) in Hindi-Urdu (for similar argumentation  
368 concerning *wh*-expletives, see Malhotra and Chandra 2007).

369 These data contrast sharply with the facts in Kashmiri, where these adverbs follow the second-  
370 position verb.  
371

376 (23) Akhəkis sɪ:t' chi hame:shɪ lada:n. [Kashmiri]  
 one.another with AUX always fight  
 '(They) always fight with each other.'  
 (Wali and Koul 1997:133)

382 (24) Təmis nishi əs hame:shɪ no:kar. [Kashmiri]  
 he near have always servants  
 'He always has servants.'  
 (Wali and Koul 1997:140)

383 In Kashmiri, the verb is clearly in a position higher than the edge of vP (analyzed here as C).  
 384 Because *wh*-phrases and focused constituents always appear immediately before the second-  
 385 position verb (in Spec,CP), they are never found immediately adjacent to vP-adjoined adverbs.  
 386 No other permutations of these orders are possible in Kashmiri.

387 We have now seen a set of systematic contrasts between Hindi-Urdu and Kashmiri, which  
 388 allow us to better understand the position of *wh*-material in Hindi-Urdu. The facts here and in  
 389 section 3.1 would be surprising indeed if Hindi-Urdu were a true *wh*-in-situ language. Each data  
 390 set suggests that there is a distinguished position for interrogative and noninterrogative focus in  
 391 Hindi-Urdu and that this position is consistent with an  $\bar{A}$ -position at the edge of vP (Spec,vP).  
 392 The comparisons here highlight the difference in the relative positions of *wh*-material in Hindi-  
 393 Urdu and Kashmiri and suggest that the same clausal topology exists in both languages, the  
 394 difference being that Spec,CP in Kashmiri plays the role that is played by Spec,vP in Hindi-Urdu.

#### 395 4 $\bar{A}$ -Movement in Hindi-Urdu: Extending an Account of Kashmiri

##### 396 4.1 Kashmiri Wh-Dependencies

397 In previous work (Manetta 2006), I claimed that the distinction between full extraction from  
 398 subordinate clauses and partial *wh*-movement in Kashmiri can be analyzed as the distinction  
 399 between the operations Move and Agree to satisfy uninterpretable features, just as in the A-  
 400 movement system. Heads and *wh*-phrases possess sets of interpretable and uninterpretable features.  
 401 If a *wh*-expletive happens to be in the numeration, it can merge to satisfy the EPP property on  
 402 a head. Much like a DP-expletive, the *wh*-expletive is defective in that it has no interpretable  
 403 features of its own, so the head into whose specifier it has merged must value its uninterpretable  
 404 features by interacting with an accessible *wh*-phrase via Agree over some distance.

405 According to this account, there are three features controlling movement and agreement in  
 406 the interrogative  $\bar{A}$ -movement system: the EPP property (common to the A- and  $\bar{A}$ -movement  
 407 systems), the [Q] feature, and the [wh] feature. Importantly, it is the interpretable [Q] feature that  
 408 introduces an unselective binder of (choice) function variables (as in Reinhart 1998).

409 The operations Agree and Move are limited to the phase in the  $\bar{A}$ -movement system, just  
 410 as they are in the A-movement system. The two phases considered here are the CP phase and  
 411 the vP phase. In the phase theory of movement (Chomsky 2000, building on Fox 2000 and  
 412 Nissenbaum 2000), the v head defines a phase for the purposes of A-movement. That is, an  
 413 argument within the vP may shift to the edge of the vP phase (Spec,vP) and may subsequently  
 414 interact with higher heads, such as T. The role of the vP-phase in  $\bar{A}$ -movement is currently being  
 415 explored (Rackowski and Richards 2005), and this strand of research will ultimately help to  
 416 provide an understanding of Hindi-Urdu. From a comparative perspective, we will see that certain  
 417 properties of Kashmiri and Hindi-Urdu can be attributed specifically to the properties of these  
 418 two phase-defining heads.

419 No intermediate probes in Kashmiri, whether they are subordinate C heads, or v heads, will  
 420 bear an interpretable [Q] feature, which appears only at the point referred to as the "scope  
 421 position." Instead, intermediate probes will have an uninterpretable [wh] feature and the EPP  
 422 property. This will cause them to be active probes that require a goal to appear in their respective  
 423 specifiers. As in any account of *wh*-movement, we must encode the observation that the EPP  
 424 property on C and v in Kashmiri *wh*-questions must be satisfied by *wh*-material. One way of  
 425 doing this is to assume that the EPP property is the requirement that a head have an additional

426 specifier beyond its selectional requirements (Chomsky 2000, 2001, Hiraiwa 2001), and that the  
 427 EPP property is designated such that it can only be satisfied by certain kinds of moved goals.  
 428 The EPP in this case is EPP<sub>[Q]</sub>, meaning that it can only be satisfied by *wh*-material, since all  
 429 *wh*-elements bear an interrogative [Q] feature (see Ura 2000 for the analogous EPP property for  
 430 DP arguments). I will refer to it simply as the EPP property throughout.<sup>10</sup>

431 In a clause that is embedded, the *wh*-phrase may raise into the root clause, as in (3), repeated  
 432 here.<sup>11</sup>  
 433

- (3) Tse kəm' chu-y ba:sa:n ki Mohn-as dits kita:b? [Kashmiri]  
 you who AUX think that Mohan-DAT gave book  
 439 'Who do you think gave Mohan the book?'

440 In a sentence like (3), the subordinate C and v heads will lack an interpretable [Q] feature. A  
 441 *wh*-phrase that has raised to the specifier of the subordinate CP will still have uninterpretable  
 442 features that require valuing. The matrix v will be much like the subordinate C and will cause  
 443 the *wh*-phrase to undergo Move into its specifier in the matrix clause. The matrix C will have  
 444 an uninterpretable [wh] feature [*uwh*], the EPP property, and the interpretable [Q] feature [*iQ*].  
 445 As a probe, it will find the *wh*-phrase in the specifier of the matrix v and will enter into an Agree  
 446 relation with this *wh*-phrase and attract it to its specifier. The *wh*-phrase will raise to the specifier  
 447 of the matrix CP, and all features will be valued on the *wh*-phrase and all heads. The result will  
 448 be full extraction. This process and the features involved are depicted in (25). Beneath each head  
 449 are the features present on that head.

- (25) [<sub>CP</sub> *wh*-XP [<sub>C</sub> . . . ] [<sub>VP</sub> — [v . . . ] [<sub>CP</sub> — [C . . . ] [<sub>VP</sub> — [v . . . ] ]]]]  
 450 *uQ* *uwh* *uwh* *uwh* *uwh*  
*iwh* *iQ* EPP EPP EPP  
 451 EPP

452 (25) represents the extraction of the *wh*-XP and its passage through the specifier positions of each  
 453 phase-defining head until reaching the matrix CP.

454 The derivation will not be licit if the uninterpretable feature of the *wh*-phrase is simply  
 455 valued by the matrix C head via Agree while the full *wh*-phrase remains in the specifier of the  
 456 subordinate CP. This is because, in the absence of a *wh*-expletive in the numeration, the EPP  
 457 property of higher probes (v and C) will not be satisfied.

458 Let us now turn to a grammatical instance of partial *wh*-movement in Kashmiri, such as (4),  
 459 repeated here.  
 460

- (4) Tse k'a: chu-y ba:sa:n ki Mohn-as kəm' dits kita:b? [Kashmiri]  
 you EXPL AUX think that Mohan-DAT who gave book  
 465 'Who do you think gave Mohan the book?'

466 In a partial movement construction, the subordinate C head will have only uninterpretable features:  
 467 an uninterpretable [wh] feature, an uninterpretable [Q] feature, and the EPP property. In the case  
 468 of (4), the numeration happens to contain the *wh*-expletive *k'a:*. This expletive differs from a full  
 469 *wh*-phrase in that it consists entirely of uninterpretable features and contributes to the syntactic  
 470 computation only an (uninterpretable) interrogative feature, [*uQ*] (thus limiting the *wh*-expletive  
 471 to constructions that will be interpreted as questions). Importantly, this understanding of *wh*-  
 472 expletives takes seriously the notion that they are the  $\bar{A}$ -movement counterparts to expletives of  
 473 the A-movement system. That is, they do not contribute any interpretable features to the derivation.  
 474 As a result of the uninterpretable [Q] feature present on the *wh*-expletive, it will move through  
 475 the specifiers of the phase-defining heads until its feature is valued. Of course, though the EPP  
 476 property is satisfied on both the matrix v and C heads by the *wh*-expletive in the derivation  
 477 schematized in (26), their [wh] features (uninterpretable) must still be valued via Agree. In this  
 478 case, the uninterpretable [wh] feature on v interacts with the interpretable [wh] feature on the  
 479 full *wh*-phrase at the edge of the embedded CP. In turn, the uninterpretable [wh] feature on the  
 480 matrix C is valued by interacting with the (now valued) [wh] feature on v, which is available  
 481 because it has not yet transitioned to the interface for deletion.<sup>12</sup> In this way, all uninterpretable



482 features are valued, and *wh*-expletives in the  $\bar{A}$ -movement system serve the same purpose as  
 483 expletives in the A-movement system: to satisfy the EPP property and permit the head's features  
 484 to be valued by some other accessible element (Simpson 2000).

(26)  $[_{CP} \textit{wh}\text{-expl} [C \dots] [_{vP} \text{---} [v \dots \text{---}] [_{CP} \textit{wh}\text{-XP} [C \dots] [_{vP} \text{---} [v \dots ]]]]]]$

	<i>uQ</i>	<i>uwh</i>	<i>uwh</i>	<i>uQ</i>	<i>uwh</i>	<i>uwh</i>
485		<i>iQ</i>	EPP	<i>iwh</i>	<i>uQ</i>	EPP
486		EPP		EPP		

487 It may seem, in (25) and (26), that the vP phases play little role in long-distance  $\bar{A}$ -movement  
 488 in Kashmiri. For instance, *wh*-material never remains in Spec,vP. This is attributed to two factors.  
 489 First, the C head in Kashmiri always has the EPP property (reflected in the fact that *wh*-material  
 490 always precedes the second-position verb). In a construction with no *wh*-expletive, the *wh*-phrase  
 491 that has moved into the matrix Spec,vP must then interact with the matrix C head to have its  
 492 uninterpretable [Q] feature valued. This interaction will trigger an application of Move, since C  
 493 always has the EPP property in Kashmiri.

494 The second factor that prevents *wh*-material from appearing in Spec,vP in Kashmiri, as I  
 495 argue in detail in Manetta 2006, is that the *wh*-expletive originates in a position below v where  
 496 it can be assigned case. This analysis follows Simpson's (2000) claim that *wh*-expletives are base-  
 497 generated in the specifier of the agreement projection Agr<sub>O</sub>, and when other DPs are present that  
 498 need to check case in this position, it will not be possible to generate the *wh*-expletive. In Manetta  
 499 2006, I therefore assume that the *wh*-expletive is base-generated in a position where it can have  
 500 accusative case valued—that is, within the c-command domain of the accusative case licenser  
 501 transitive v. Since the *wh*-expletive cannot be introduced by semantic selection, we know that it  
 502 must be merged into the specifier of a head that has the EPP property. Aspect is a functional  
 503 head in the c-command domain of v on which it would be reasonable to posit the EPP property.<sup>13</sup>  
 504 The *wh*-expletive introduced into Spec,AspP has three features: an uninterpretable [D] feature,  
 505 an uninterpretable case feature (accusative), and the uninterpretable [Q] feature. Note that it has  
 506 no interpretable features at all. When the transitive v is introduced, it will interact with the *wh*-  
 507 expletive, and the expletive's uninterpretable accusative case feature and [D] feature will be  
 508 valued. In this view, if there is more than one potential goal, such as an additional object *wh*-  
 509 phrase or a noninterrogative clausal expletive, the uninterpretable case feature on one or the other  
 510 will go unvalued because only one goal can interact with the v head, and the derivation will fail  
 511 to converge. In section 5.2, I will suggest that the *wh*-expletive *kya*: in Hindi-Urdu is base-  
 512 generated in a similar way.

513 In the matrix clause of a two-clause *wh*-expletive construction in Kashmiri, the *wh*-expletive  
 514 firsts move into Spec,vP to value the EPP property on v, and it must then move to Spec,CP for  
 515 the reasons discussed above. If this is so, the partially moved full *wh*-phrase on the edge of the  
 516 embedded clause will never have the opportunity to move into Spec,vP (the *wh*-expletive has  
 517 already valued the EPP property on v). This derives the so-called antilocality property of *wh*-  
 518 expletives: a *wh*-expletive cannot appear in the same clause as the full *wh*-phrase whose position  
 519 of interpretation it indicates (McDaniel 1989, Simpson 2000).<sup>14</sup> Interestingly, the primary thrust  
 520 of the analysis to follow is that in Hindi-Urdu it is in the intermediate vPs where partially moved  
 521 *wh*-phrases are found.

#### 522 4.2 Extending the Proposed Account to Hindi-Urdu

523 Hindi-Urdu has traditionally been viewed as a *wh*-in-situ language. That is, *wh*-material was not  
 524 understood to occupy a distinguished position in the overt syntax. Previous approaches to Hindi-  
 525 Urdu and similar languages (Mahajan 1990) proposed that *wh*-material be licensed and raise to  
 526 a position of interpretation at the level of Logical Form (LF), via movement to Spec,CP. This  
 527 movement occurs covertly, following the operations in the syntax, and is therefore never visible  
 528 in the surface representation.

529 An alternative to this view presents itself in more recent work in the form of the operation  
 530 Agree (Chomsky 2000; see also Bhatt 2005), permitting the features of a *wh*-phrase to be valued

531 under local command in the narrow syntax, instead of forcing movement to Spec,CP. We can  
 532 assume that C bears the interpretable [Q] feature in a main-clause question, but that this head  
 533 need not necessarily possess the EPP property, so that the *wh*-word need not move to a C-  
 534 peripheral position. Further, if *wh*-phrases have the semantics of indefinites unselectively bound  
 535 by interrogative operators, there is no reason to think that they must raise, for interpretive reasons,  
 536 to a “scope position.” I will continue to use that term here (since it is convenient and well  
 537 established), but this is purely for exposition.

538 Let us proceed stepwise through the derivation of a simple monoclausal *wh*-question, (27),  
 539 before turning to the long-distance *wh*-dependencies at hand. The *v* head probes its domain and  
 540 interacts with the *wh*-phrase through the operation Move, simultaneously valuing its uninterpretable  
 541 [wh] feature and the EPP property.<sup>15</sup> The C head then probes its domain and values its  
 542 uninterpretable [wh] feature in the local command configuration through the operation Agree.  
 543 The uninterpretable [Q] feature on the *wh*-phrase is simultaneously valued by its interpretable  
 544 counterpart on C. This operation is represented by the diagram in (28).  
 545

(27) Hamid-ko kis-ne ma:ra:? [Hindi-Urdu]  
 Hamid-ACC who-ERG hit  
 ‘Who hit Hamid?’

546

(28) [<sub>CP</sub> C . . . Hamid-ko [<sub>vP</sub> kis-ne [<sub>vP</sub> v — — ma:ra:]]]  
 $iQ$   $uQ$   $uwh$   
 $uwh$   $iwh$  EPP

553

554 Note that in the derivation of simple, monoclausal *wh*-questions like (27) (and like (29) and (31),  
 555 discussed below), the preferred word order is the result of subsequent movement of the DP  
 556 arguments that are not *wh*-phrases out of the *vP*, to a position that I have not strictly identified  
 557 in (28). I assume here that this evacuation is the result of scrambling, extensively discussed  
 558 elsewhere (Mahajan 1990, 1994, Dayal 1994, Kidwai 2000). The precise characteristics of this  
 559 intermediate scrambling operation (i.e., scrambling beyond the subject position) are somewhat  
 560 mysterious and have resisted straightforward analysis. Investigations of this type of scrambling  
 561 have demonstrated that it may exhibit characteristics of both A- and  $\bar{A}$ -movement, and researchers  
 562 have suggested that it is movement to a “mixed” position (Webelhuth 1989) or movement  
 563 involving multiple steps (Mahajan 1990, 1994). However, what is clear is that this scrambling  
 564 out of the *vP* is a necessary part of the formation of an unmarked *wh*-question. Kidwai (2000)  
 565 introduces a specific account that attempts to directly link *wh*-displacement with evacuation of  
 566 the *vP*, claiming that scrambling is nonoptional  $\bar{A}$ -movement that serves to license or “activate”  
 567 the preverbal focus position. Whatever the specific mechanisms are that link scrambling and *wh*-  
 568 questions, any complete account of Hindi-Urdu word order requires a coherent theory of scram-  
 569 bling. Even a *wh*-in-situ approach to (27) would need an account of how scrambling derives the  
 570 unmarked order.

571 I will subscribe to no specific account of the broader phenomenon of leftward scrambling  
 572 here, though if we treat scrambling as feature-driven displacement, I assume there is a formal  
 573 way of associating a C head bearing interrogative features with heads that might be responsible  
 574 for scrambling. With that in mind, let us now briefly walk through the derivation of monoclausal  
 575 *wh*-questions in which the questioned element is an object (in (29)) or adjunct (in (31)), in order  
 576 to set the stage for the analysis of long-distance *wh*-dependencies below.  
 577

(29) Hamid-ne kya: ci:z dekhi:? [Hindi-Urdu]  
 Hamid-ERG what thing saw  
 ‘What thing did Hamid see?’

578

(30) [<sub>CP</sub> C . . . Hamid-ne [<sub>vP</sub> kya: ci:z [<sub>vP</sub> v — — dekhi:]]]  
 $iQ$   $uQ$   $uwh$   
 $uwh$   $iwh$  EPP

585

586 In the case of (30), the features on the *v* and C probes, as well as on the *wh*-phrase goal, are  
 587 valued in precisely the same way as they are in (28). The primary difference here is that it is the

588 subject *Hamid-ne* ‘Hamid’, originally merged into Spec,vP, that must scramble outside the vP.  
 589 Next, consider (31).  
 590

(31) *Hamid-ne Aziz-ko kab dekha: tha:?* [Hindi-Urdu]  
 Hamid-ERG Aziz-ACC when saw AUX  
 595 ‘When did Hamid see Aziz?’

(32) [<sub>CP</sub> C . . . Hamid-ne Aziz-ko [<sub>vP</sub> kab [<sub>vP</sub> v \_\_\_\_\_ dekha: tha:]]]  
 596 *iQ uQ uwh*  
 597 *uwh iwh EPP*

598 Again, in (32) the valuing of features on interrogative probes and goals takes place in the same  
 599 manner described for (28).<sup>16</sup> However, in this case both the subject and the object must scramble  
 600 out of the vP in order to derive the unmarked order.

601 The above approach highlights a primary source of variation that distinguishes Hindi-Urdu  
 602 and Kashmiri. Interrogative C lacks the EPP property in Hindi-Urdu but bears the EPP property  
 603 in Kashmiri. Therefore, Kashmiri exhibits *wh*-movement to the left edge of the clause but Hindi-  
 604 Urdu does not. However, this apparent advance immediately creates a puzzle for the case of *wh*-  
 605 phrases taking scope over more than one clause. Consider again the Hindi-Urdu *wh*-expletive  
 606 construction in (2), repeated here.  
 608

(2) *Sita-ne kya: soca: ki Ravi:-ne kis-ko dekha:?* [Hindi-Urdu]  
 Sita-ERG EXPL thought that Ravi-ERG who-ACC saw  
 609 ‘Who did Sita think that Ravi saw?’

614 In the case of (2), how do the features on the matrix C get valued? It is clear that the *wh*-phrase  
 615 in the lower clause remains clause-internal, just as the *wh*-phrase does in (9), and does not move  
 616 to a left-peripheral position in the clause. If this is the case, the features of the *wh*-phrase *kis-ko*  
 617 are inaccessible to the matrix C probe, because they are not contained within its phase, or even  
 618 on the edge of the immediately preceding phase. Recall the Kashmiri example (26) in which it  
 619 is the interpretable [wh] feature on the *wh*-phrase in the embedded Spec,CP that values the  
 620 uninterpretable [wh] features in the matrix clause. The full *wh*-phrase in (2) is too deeply embedded  
 621 for this to be possible, because two phase boundaries intervene (the ones defined by the matrix  
 622 v head and the subordinate C head). The account of *wh*-in-situ as Agree immediately encounters  
 623 a challenge here.

624 If the *wh*-expletive *kya:* found in Hindi-Urdu is assumed to have the same characteristics  
 625 as the *wh*-expletive found in Kashmiri, it also cannot be the *wh*-expletive in the matrix clause in  
 626 (2) that values the features on the matrix C. The *wh*-expletive has only a single, uninterpretable  
 627 [Q] feature, and no [wh] feature at all. It can only function to satisfy the EPP property on a head.  
 628 So the question remains: how do the features on the full *wh*-phrase and the features on the matrix  
 629 C head get valued?

630 There is a deeper question here as well, which concerns the very nature of the *wh*-expletive.  
 631 In Kashmiri, the *wh*-expletive serves the role of satisfying the EPP property on the phase-defining,  
 632 [Q]-bearing head. However, it can hardly be the case that the *wh*-expletive in (2) satisfies the  
 633 EPP property on the matrix C head—it seems instead to be occupying the same preverbal position  
 634 that full *wh*-phrases in Hindi-Urdu occupy. If the *wh*-expletive can neither value the features on  
 635 the C head, nor satisfy the EPP property on that head, then it seems to have no purpose whatsoever.

636 Finally, the Kashmiri *wh*-expletive construction has also been termed “partial movement,”  
 637 because the full *wh*-phrase in the lower clause has clearly moved from its base position to the  
 638 left periphery of that clause. However, it is unclear in what sense (2) is a case of partial movement  
 639 in Hindi-Urdu. Certainly the *wh*-phrase in the embedded clause has not moved to the clause edge.  
 640 These questions suggest that the analysis reviewed in section 4.1 will require adjustment to be  
 641 extended to Hindi-Urdu. In what follows, I will combine the observations from this section with the  
 642 evidence examined in section 3, which indicated that Hindi-Urdu *wh*-material can be understood as  
 643 being located in Spec,vP.

644 **5 Wh-Dependencies in Hindi-Urdu: The vP Phase**

645 *5.1 Wh-Movement in Tagalog: A Case for [Q]-Bearing v*

646 Among those who have argued that the vP phase is a possible stopping-off point for long-distance  
 647 *wh*-movement are Rackowski and Richards (2005). They offer supporting evidence for the phase  
 648 theory of movement by claiming that vP is actually the only phase relevant to successive-cyclic  
 649 *wh*-movement crosslinguistically.

650 Rackowski and Richards show that specific arguments in Tagalog must move to Spec,vP to  
 651 receive the appropriate semantic interpretation. Evidence for this claim includes overt morphology  
 652 on the verb indicating agreement in case with the shifted argument. Arguments that must shift  
 653 include *wh*-phrases. Rackowski and Richards compare this shift to object shift in Germanic lan-  
 654 guages. On this interpretation, in the Tagalog sentence in (33) the verb shows agreement in case  
 655 (*cs*) with the shifted *wh*-word.

- 656 (33) Sino [ang binigy-*an* ng lalaki ng bulaklak \_\_\_\_]?  
 657 who ANG give-DAT CS man CS flower  
 658 ‘Who did the man give the flower to?’  
 659 (Rackowski and Richards 2005:566)

660 The verb can also agree with a CP complement.

- 661 (34) Sa-sabih-*in* ng kalabaw na masarap ang bulaklak.  
 662 ASP-say-ACC CS water.buffalo that delicious ANG flower  
 663 ‘A/The water buffalo will say that the flower is delicious.’  
 664 (Rackowski and Richards 2005:586)

665 In the case of long-distance *wh*-dependencies, in order for extraction to be possible from the  
 666 embedded clause, the verb must agree with that clause.

- 667 (35) Kailan [sa-sabih-*in* ng sundalo [na  $\emptyset$ -u-uwi ang pangulo e]]?  
 668 when ASP-say-ACC CS soldier that NOM-ASP-go.home ANG president  
 669 ‘When will the soldier say that the president will go home?’  
 670 (Rackowski and Richards 2005:586)

- 671 (36) \*Kailan [*m*-agsa-sabi ang sundalo [na  $\emptyset$ -u-uwi ang pangulo e]]?  
 672 when NOM-ASP-say ANG soldier that NOM-ASP-go.home ANG president  
 673 ‘When will the soldier say that the president will go home?’  
 674 (Rackowski and Richards 2005:586)

675 This fact leads Rackowski and Richards to propose that both *v* and interrogative *C* have features  
 676 that must be valued in the process of *wh*-movement, and that they may also possess the EPP  
 677 property, causing goals to appear in their specifiers. We have seen this account at work in the  
 678 analysis of Kashmiri *wh*-movement and *wh*-expletive constructions in section 4.1. However, in  
 679 a significant break with previous approaches, Rackowski and Richards claim that it is unnecessary  
 680 for noninterrogative *C* to Agree with any *wh*-material at all. For example, for a long-distance *wh*-  
 681 extraction in English like that in (37), Rackowski and Richards propose the derivation in (38).<sup>17</sup>

- 682 (37) Who did you say Obama appointed \_\_\_\_?

- 683 (38) [C<sub>[Q]</sub> [who v [C [who v who]]]]  
 686

687 In (38), *who* moves first to the specifier of the lower *v*. After the matrix *v* has Agreed with the  
 688 embedded *C*, the embedded *C* phase is transparent to the matrix *v* probe (we will consider this  
 689 in more detail below). This probe can then find and interact with *who*, which moves into the  
 690 matrix clause. In the final step of the derivation, *who* moves into the specifier of the interrogative  
 691 matrix *C*. It is crucial for Rackowski and Richards to assume that once a probe *P* has Agreed  
 692 with a clausal goal *G*, *P* can ignore *G* for the rest of the derivation. I will not examine this

693 “transparent goal” claim in more detail at this juncture, though see Richards 1998, Hiraiwa 2001.

694 Rackowski and Richards acknowledge that languages that show evidence for *wh*-related  
695 morphology on intermediate C, or *wh*-expletives in the specifier of intermediate C, will prove  
696 challenging for this view. If noninterrogative CPs are not phases that force movement through  
697 their specifiers, we require alternative explanations of these facts. For instance, the morphology  
698 of Irish complementizers has been analyzed as indicative of successive-cyclic *wh*-movement  
699 through Spec,CP (McCloskey 1990, 2001). Complementizers exhibit a distinguished form if an  
700  $\bar{A}$ -binding relation (actually a movement relation) holds between a position within the CP they  
701 head and a position external to that CP. Rackowski and Richards claim that this morphology  
702 simply indicates that the C in question has Agreed with a [Q]-bearing *v*, which has in turn Agreed  
703 with a *wh*-phrase.

704 An approach that depends solely on Spec,vP as a stopping-off point for long-distance *wh*-  
705 movement will also face difficulty in accounting for *wh*-expletives and instances of partial move-  
706 ment such as those found in languages like German and Kashmiri. Rackowski and Richards  
707 acknowledge that in order to understand why *wh*-material would seem to appear overtly in the  
708 specifier of a noninterrogative CP in these languages, they would need to assume a version of  
709 the indirect dependency approach. That is, they would need to claim that any CP in which a full  
710 *wh*-phrase or *wh*-expletive appears is in fact an interrogative CP, and that the scope properties  
711 of that *wh*-phrase are the result of a complex process of coindexation and/or covert clausal pied-  
712 piping. Of course, in the case where the indirect dependency approach is not found to be tenable  
713 for reasons discussed above (Bayer 1996, Beck and Berman 2000), Fanselow and Mahajan 2000),  
714 Rackowski and Richards’s approach becomes problematic for languages like Kashmiri.

715 In what follows, I will propose an alternative position that could admit Rackowski and  
716 Richards’s approach without sacrificing our current understanding of Kashmiri: for some lan-  
717 guages, the specifiers of noninterrogative CPs are *wh*-positions and are stopping-off points for  
718 *wh*-phrases and *wh*-expletives; for other languages, Spec,vP is the only stopping-off point for  
719 long-distance *wh*-movement. If this is the case, we might expect to see some languages in which  
720 *wh*-phrases and *wh*-expletives can remain in Spec,vP.<sup>18</sup> I will claim here that Hindi-Urdu is just  
721 such a language. Insofar as this line of reasoning is correct, we should be able to understand the  
722 contrasts between Hindi-Urdu and Kashmiri.

## 723 5.2 An Account of Hindi-Urdu Wh-Dependencies

724 At this point, I will bring together two strands of research. The first is the account of partial  
725 movement described above, built on the intuition that the  $\bar{A}$ -movement system is shaped by the  
726 same mechanisms that shape the A-movement system. The second is Rackowski and Richards’s  
727 account of Tagalog, built on the intuition that Spec,vP may play the role traditionally ascribed  
728 to Spec,CP. Let us now pursue a detailed analysis of the Hindi-Urdu *wh*-expletive construction  
729 in (2) combining these two approaches.

730 The first step is to assume that a full *wh*-phrase and a *wh*-expletive in Hindi-Urdu will  
731 possess exactly the same features as they do in Kashmiri. Specifically, as before, we assume that  
732 a *wh*-phrase will have an uninterpretable [Q] feature and an interpretable [wh] feature (which  
733 provides its interpretation as a choice function variable). A *wh*-expletive will have an uninterpreta-  
734 ble [Q] feature, but no interpretable features at all.

735 The groups of features motivating a long-distance *wh*-dependency in Hindi-Urdu will be  
736 more or less identical to those in Kashmiri. The primary difference is that the features are located  
737 not on C heads but on *v* heads. This causes *wh*-material to appear not in the specifier positions  
738 of CP but in the specifier positions of vP. In the matrix clause, the interrogative C head will bear  
739 an interpretable [Q] feature and an uninterpretable [wh] feature, just as it does in single-clause  
740 Hindi-Urdu sentences and in Kashmiri. In this way, the interpretable [Q] feature will be interpreted  
741 by the semantics as an unselective binder of choice functions. This matrix C head, however, will  
742 not have the EPP property. This means that the features on the C head will then be valued by  
743 virtue of the C head’s relation with a *wh*-phrase in some accessible position within its domain  
744 (its own phase or at the edge of the immediately lower phase). In this case, this phase will be

745 the vP phase in the matrix clause. The schema in (39) illustrates the featural content of each of  
 746 the relevant heads in the *wh*-expletive construction in (2), as well as the features of the *wh*-  
 747 material. An explanation of the derivation follows.

(39) [<sub>CP</sub> C . . . [<sub>vP</sub> *wh*-expl [v . . . —]] [<sub>CP</sub> C . . . [<sub>vP</sub> *wh*-XP [v . . . —]]]]

748	<i>uwh</i>	<i>uQ</i>	<i>uwh</i>	<i>uQ</i>	<i>uwh</i>
	<i>iQ</i>		EPP	<i>iwh</i>	<i>uQ</i>
749					EPP

750 There are two different types of heads that bear features relevant to *wh*-movement in (39). The  
 751 first is v, which bears [wh] features in both the subordinate and matrix clauses.<sup>19</sup> The second is  
 752 C, which only bears features relevant to *wh*-movement in the main clause. Noninterrogative C  
 753 heads do not bear a [wh] feature in Hindi-Urdu under this analysis, and neither interrogative nor  
 754 noninterrogative C heads bear the EPP property. As a consequence, this approach correctly predicts  
 755 that no *wh*-material is ever found in the specifier of interrogative or noninterrogative CP in Hindi-  
 756 Urdu. Such elements are found, rather, in lower positions.

757 Beginning in the lower clause in (39), the *wh*-phrase *kis-ko* originates in object position. The  
 758 v head in the lower clause is a probe possessing the EPP property, and it interacts with and raises  
 759 *kis-ko* into its second specifier position. In this interaction, the uninterpretable [wh] feature on v  
 760 is valued, as is the EPP property. The uninterpretable [Q] feature of the *wh*-XP is also valued,  
 761 and it will move no further. Note, however, that this v head has no relevant interpretable fea-  
 762 tures—the *wh*-phrase in its specifier will not be interpreted in this position.

763 If this account of Hindi-Urdu were precisely like the account of Kashmiri, we would expect  
 764 the subordinate C head to have an uninterpretable [wh] feature and the EPP property. That is, it  
 765 would be one in the sequence of C and v probes interacting with the full *wh*-phrase. However,  
 766 under Rackowski and Richards’s (2005) approach noninterrogative C heads have no *wh*-related  
 767 features at all and they do not participate in *wh*-movement. In the hybrid view adopted here,  
 768 though Kashmiri is a language in which noninterrogative C heads do have [wh] features (as is  
 769 evidenced by the presence of *wh*-material in the specifier of noninterrogative CPs), Hindi-Urdu  
 770 is a language in which they do not.

771 Moving up in the structure, the next head with relevant features is the v head in the matrix  
 772 clause. As discussed above for Kashmiri, the *wh*-expletive *kya*: originates within the domain of  
 773 v. The matrix v first interacts with the *wh*-expletive. This interaction values the EPP property on  
 774 v. However, the uninterpretable [wh] feature on the v head remains unvalued and so the head  
 775 continues to act as a probe.

776 Following Rackowski and Richards’s (2005) approach, the matrix v head must have some  
 777 feature that requires it to Agree with the embedded C, just as it might interact and agree with a  
 778 direct object. In Tagalog, the presence of this feature has overt morphophonological consequences;  
 779 in Hindi-Urdu, it does not. A consequence of this relation is that the phase boundary of the  
 780 embedded C becomes transparent to v, and v can continue probing down to the next phase edge.  
 781 The matrix v must then probe to the edge of the lower v phase, finding the *wh*-phrase *kis-ko* in  
 782 its specifier.<sup>20</sup> In interacting with the *wh*-phrase, the v head values its uninterpretable [wh] fea-  
 783 ture.<sup>21</sup> At this point, all of the features on the matrix v have been valued.

784 The only remaining head with unvalued features is the matrix C, which probes its domain up  
 785 to the edge of the lower phase, the matrix v. Note that this is as far as the matrix C can probe;  
 786 the v head possesses interrogative features and is not “transparent” in the sense of Rackowski  
 787 and Richards. The matrix C head values the uninterpretable [Q] feature of the *wh*-expletive, and  
 788 subsequently its own uninterpretable [wh] feature with the [wh] feature on the matrix v. Now the  
 789 derivation is complete and licit, with all features valued and no unvalued features remaining on any  
 790 *wh*-material or in any head. In the interpretive component, as before, the C bearing interpretable [Q]  
 791 triggers the introduction of the unselective binding operator that binds the choice-function variable  
 792 of the *wh*-phrase.

793 Let us take a moment here to recall the basic intuition that this account is attempting to capture.  
 794 We have seen a body of empirical evidence that suggests that the surface position for *wh*-material

795 in Kashmiri is Spec,CP, but that in Hindi-Urdu such material occupies Spec,vP. We have also  
796 seen that in Hindi-Urdu, unlike in Kashmiri, *wh*-material can never appear in the specifier position  
797 of any intermediate CP, and we have no specific morphological evidence that it has ever appeared  
798 in this position. Fundamentally, what we wish to claim is that the same clausal topology surfaces  
799 in both Kashmiri and Hindi-Urdu, but at the CP layer in Kashmiri and the vP layer in Hindi-  
800 Urdu.

801 As I see it, there are a number of ways to capture this intuition in this framework. One possible  
802 view is that in Hindi-Urdu, CP is not a phase at all. This view would claim that phases are  
803 parameterized across languages and defined in some language-specific manner. Of course, this  
804 approach would require a major rethinking of our understanding of phases. To this point, phases  
805 (CP, vP, DP) have been identified as universal processing units of the derivation. It is unclear  
806 what it would mean to say that in a certain language, a certain projection does not constitute a  
807 phase, or possibly only constitutes a phase for one type of movement but not another.

808 A second possible way to capture the basic intuition described above is to assume that *wh*-  
809 material moves through the specifier of every phase-defining head (C and v on its way to its  
810 ultimate position, regardless of language. In this view, the fundamental distinction between Hindi-  
811 Urdu and Kashmiri is that the surface position of *wh*-material in Hindi-Urdu is Spec,vP, and in  
812 Kashmiri is Spec,CP. Regardless of whether there is any overt evidence that *wh*-material moves  
813 through the specifier of a head, we would assume that it must do so as part of the fundamental  
814 design of phases. The disadvantage of this approach is that, for those languages like Hindi-Urdu  
815 for which we have no evidence that *wh*-material ever appears in Spec,CP, we must posit that it  
816 does pass through this position. On the other hand, the advantage of this view is a certain uniformity  
817 in the understanding of  $\bar{A}$ -movement across different language types. Every C and v head in  
818 every language possesses features relevant to *wh*-movement. What primarily varies by language  
819 is which of these heads possess the EPP property.

820 A third possible way to capture the v/C distinction between Hindi-Urdu and Kashmiri is to  
821 adopt the view advocated by Rackowski and Richards (2005). Specifically, when a v probe Agrees  
822 with a clausal phase head, it can probe beyond that phase boundary to the edge of the next lower  
823 phase. This approach requires us to assume that completed phases are not immediately exported  
824 to the interfaces (Chomsky 2004) but instead remain in the workspace throughout the derivation.

825 At this point, I see no clear empirical test for distinguishing among these proposals. For the  
826 sake of familiarity, I will adopt Rackowski and Richards's view. In addition, the basic claim  
827 Rackowski and Richards make (that the vP phase can play a crucial role in *wh*-processes) correlates  
828 well with our empirical observations about Hindi-Urdu.<sup>22</sup> The analysis proposed here could be  
829 expressed under any of the sets of assumptions above (and possibly others). What is crucial is  
830 that the basic intuition about the relative clausal organization of  $\bar{A}$ -movement in Hindi-Urdu and  
831 Kashmiri is captured.

832 Returning to the diagram in (39), if the *wh*-phrase in the lower clause was not frozen in  
833 place, but instead was forced to continue raising, and if no *wh*-expletive was available in the  
834 numeration to satisfy the EPP property on the higher v, the result would be displacement, an  
835 additional strategy for forming a long-distance *wh*-dependency in Hindi-Urdu.

836 Let us reconsider (1), repeated here.  
837

(1) Sita-ne kis-ko soca: ki Ravi:-ne \_\_\_\_\_ dekha:? [Hindi-Urdu]

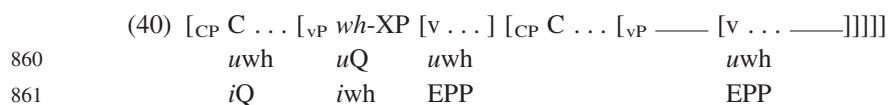
Sita-ERG who-ACC thought that Ravi-ERG saw

838 'Who did Sita think that Ravi saw?'

843 Recall that (1) is nearly identical to the *wh*-expletive construction in (2), except that the *wh*-word  
844 that originates in the lower clause appears in the matrix clause. There is significant debate in the  
845 literature about the nature of (and even the grammaticality of U) the displacement in (1). Some  
846 researchers contend that this is just another example of *wh*-movement (Simpson 2000, Simpson  
847 and Bhattacharya 2003), familiar from a wide range of languages. Others (Dayal 1996) contend  
848 that this is a form of scrambling, entirely unrelated to either the *wh*-expletive construction in (2)  
849 or the usual form of *wh*-movement visible in other languages.

850 Given the current theoretical framework, there is a way of viewing (1) in which it is less  
 851 relevant what name is given to the movement. If, as Chomsky (2004) claims, all movement is  
 852 driven by the interaction of features and/or by the EPP property, then movement in both a full  
 853 *wh*-movement language like Kashmiri and a so-called *wh*-scrambling language like Hindi-Urdu  
 854 must be driven by the same basic mechanisms. The upshot of this notion is that the same features  
 855 that induce *wh*-expletive constructions might also induce displacement of the *wh*-word in (1).  
 856 Whether this displacement is in fact termed scrambling or movement becomes less important.

857 The diagram in (40) depicts the feature bundles that would appear on each head in the long-  
 858 distance *wh*-displacement in (1). Of course, the *wh*-phrase *kis-ko* has the same features it has in  
 859 a sentence like (2)/(39). An explanation of the derivation follows.



862 Just as in (39), in (40) the full *wh*-phrase *kis-ko* has an uninterpretable [Q] feature and an  
 863 interpretable [wh] feature. The probe *v* in the lower clause interacts with *kis-ko* and raises it to  
 864 an outer specifier position. This interaction values the uninterpretable [wh] feature on *v* as well  
 865 as the EPP property. At this point, *kis-ko* is at a phase edge. The embedded C head has no features  
 866 relevant to *wh*-movement and therefore does not interact with it.

867 According to Rackowski and Richards’s (2005) approach, the *v* in the matrix clause must  
 868 probe and Agree with the C head. When this occurs, the embedded CP phase becomes transparent  
 869 to the *v* head, and it can probe for material beneath it. If there is no *wh*-expletive in the numeration,  
 870 the matrix *v* head must probe to the edge of the embedded vP phase, and it will find and interact  
 871 with the *wh*-phrase *kis-ko*. The *wh*-phrase will raise into an outer specifier of the matrix vP,  
 872 valuing the uninterpretable [wh] feature on the matrix *v* and satisfying the EPP property on that  
 873 head. Note that the *wh*-phrase does not yet have all of its features valued (namely, the uninterpretable  
 874 [Q] feature).

875 As in (39), the C head in (40) has an uninterpretable [wh] feature and an interpretable [Q]  
 876 feature. The *wh*-phrase is on the edge of the immediately lower phase (the matrix vP), and so  
 877 the C probe can interact with it, and all features are mutually valued—that is, the uninterpretable  
 878 [wh] feature on the C head and the uninterpretable [Q] feature on the *wh*-phrase. At this point,  
 879 all features in the derivation have been valued, and the derivation is licit. Whether the *wh*-  
 880 displacement in (40) is termed *wh*-movement or scrambling, the *wh*-phrase raises into a higher  
 881 clause, attracted by features of a higher, phase-defining head.<sup>23</sup>

882 Let us now address at what point the *wh*-expletive is first introduced into the clause. As  
 883 discussed above, I argue in Manetta 2006 that in Kashmiri the *wh*-expletive is base-generated in  
 884 a position where it can be assigned case by transitive *v*, in Spec,AspP. Here I will suggest that  
 885 the same holds true for Hindi-Urdu. As in Kashmiri, this correctly predicts that sentences in which  
 886 another *wh*-DP or the expletive object *yeh* cooccurs in a single clause with the *wh*-expletive are  
 887 ungrammatical in Hindi-Urdu.  
 888

(41) \*Sita-ne yeh kya: so:ca: ki Ravi:-ne kis-ko dekha:? [Hindi-Urdu]  
 Sita-ERG this EXPL thought that Ravi-ERG who-ACC saw  
 Intended: ‘Who did Sita think that Ravi saw?’  
 (Mahajan 2000:319)

(42) \*Sita-ne kis-ko kya: dekha:? [Hindi-Urdu]  
 Sita-ERG who-ACC EXPL saw  
 Intended: ‘Who did Sita see?’  
 (Simpson 2000)

901 In this view, Hindi-Urdu sentences like (41) and (42) are impossible because only one goal can  
 902 interact with the *v* head and have its uninterpretable case feature valued. If there is more than  
 903 one potential goal, such as an additional *wh*-phrase or a clausal expletive, the uninterpretable case  
 904 feature on one or the other will go unvalued, and the derivation will fail to converge.



905 *Wh*-dependencies mediated by *wh*-expletives that extend across three or more clauses have  
 906 been widely discussed in the literature (e.g., McDaniel 1989 for German and Romani; Dayal 1994  
 907 for Hindi-Urdu; Horvath 1997 for Hungarian). In Hindi-Urdu, a *wh*-expletive must appear in the  
 908 preverbal position in every clause intervening between the clause containing the full *wh*-phrase  
 909 and the clause at which the *wh*-phrase is interpreted (Dayal 1994, Mahajan 2000). This is illustrated  
 910 in (43).  
 911

- (43) a. Ra:m-ne *kya:* soca: ki Ravi:-ne *kya:* kaha: ki *kon sa* [Hindi-Urdu]  
 Ram-ERG EXPL thought that Ravi-ERG EXPL said that which  
*a:dmi:* a:ya:?  
 man came  
 912 ‘Which man did Ram think that Ravi said came?’  
 918 b. \*Ram-ne *kya:* soca: ki Ravi:-ne kaha: ki *kon sa a:dmi:* a:ya:?

919 Accounting for *wh*-expletive constructions spanning three or more clauses in Hindi-Urdu is a  
 920 simple extension of the account for two-clause structures ((44) is abridged for clarity).

- 921 (44) [<sub>CP</sub> C [<sub>vP</sub> *wh*-expl [v] [<sub>CP</sub> C [<sub>vP</sub> *wh*-expl [v] [<sub>CP</sub> C [<sub>vP</sub> *wh*-XP [v . . . — ]]]]]]]]  
 922 *uwh* *uQ* *uwh* *uQ* *uwh* *uQ* *uwh*  
*iQ* EPP *uQ* *iwh* *uQ*  
 EPP EPP

923 This extension is relatively trivial because it is not the embedded full *wh*-phrase that values the  
 924 features of the interrogative C head in the *wh*-expletive analysis of sentences like (49a) (see (39)),  
 925 but instead a local interaction with the closest v head. In fact, for each intermediate v head with  
 926 *wh*-features (as well as the interrogative C head), uninterpretable *wh*-features are always valued  
 927 by features at the edge of the next lower vP. Importantly, this means that the interrogative C head  
 928 can be an unlimited distance from the full *wh*-phrase provided that the EPP property on each  
 929 intervening v head is valued by a *wh*-expletive. If the necessary *wh*-expletives are not present in  
 930 the numeration, the derivation will crash, accounting for the ungrammaticality of (43b).<sup>24</sup>

931 This account of *wh*-expletive constructions in Hindi-Urdu offers answers to a number of  
 932 questions that so far have remained mysterious. First and foremost, the combined strands of  
 933 research have suggested that the syntactic position of *wh*-phrases and *wh*-expletives that preferen-  
 934 tially appear is consistent with the specifier of vP. In section 3, I presented empirical support for  
 935 this claim, and we have seen here that the claim is well integrated into an account of long-distance  
 936 *wh*-dependencies in the language.<sup>25</sup>

937 Second, this analysis correctly predicts that no *wh*-phrases or *wh*-expletives are ever found  
 938 in Spec,CP in Hindi-Urdu. In contrast with Kashmiri, interrogative CPs interact with *wh*-material  
 939 via Agree at a distance and do not require that *wh*-material move to Spec,CP. Further, under the  
 940 view adopted here from Rackowski and Richards (2005), this is due to the fact that noninterrogative  
 941 CPs in Hindi-Urdu do not participate in *wh*-movement. Noninterrogative C heads possess no *wh*-  
 942 related features and therefore do not interact with *wh*-material at all (though see above for other  
 943 ways to implement this view).

944 Third, and perhaps most importantly, this account provides a way of understanding the role  
 945 of the *wh*-expletive in Hindi-Urdu. The *wh*-expletive serves to value the EPP property on the  
 946 attracting head for long *wh*-movement, and in Hindi-Urdu this happens to be the v head. The  
 947 features on that head may then be valued via Agree with some other goal in its domain. Thus,  
 948 *wh*-expletives in Hindi-Urdu and Kashmiri can be viewed as being governed by exactly the same  
 949 set of mechanisms.

950 Finally, Hindi-Urdu can now be considered a language that exhibits a true case of “partial”  
 951 *wh*-movement, in that the full *wh*-phrase in the lower clause moves from its base position into  
 952 the specifier of the embedded vP. This resolves a puzzling mismatch, in that other languages  
 953 with *wh*-expletive constructions also tend to exhibit “partial” *wh*-movement constructions. Now  
 954 Hindi-Urdu can also be understood to fall under both of these categories.

956 There are previous approaches to questions in Hindi-Urdu (Dayal 1994, 1996, Lahiri 2002) and  
957 related languages such as Bangla (Simpson and Bhattacharya 2003) that are worth addressing in  
958 the context of the current effort.

959 Simpson and Bhattacharya's (2003) analysis of *wh*-expletive constructions in Bangla assumes  
960 that Bangla, though typically analyzed as SOV and *wh*-in-situ just like Hindi-Urdu, is in fact  
961 SVO and has obligatory overt *wh*-movement. According to Simpson and Bhattacharya, this word  
962 order, as well as overt *wh*-movement, is typically disguised by a number of factors, but is manifest  
963 in certain contexts. Although the account I have proposed here stops short of assuming underlying  
964 SVO word order for Hindi-Urdu, I do claim that finite CPs are complements in the language and  
965 that the displacement of *wh*-phrases that we see in Hindi-Urdu is in fact *wh*-movement. In this  
966 way, the data presented for Bangla by Simpson and Bhattacharya, as well as the account they  
967 give for those data, inform the analysis I ultimately adopt.

968 The most recent alternative account for some of the phenomena addressed here is found in  
969 the indirect dependency approach of Lahiri (2002). In what follows, I will briefly summarize this  
970 analysis and show that one of its core assumptions is unworkable. I claim that the account presented  
971 here provides greater empirical coverage at less theoretical cost.

972 Lahiri (2002) proposes a variation of the indirect dependency (ID) approach for *wh*-expletive  
973 structures in Hindi-Urdu. His analysis consists of a semantic elaboration on and revision of Dayal's  
974 (1994, 1996) approach. It shares with this (and all other ID accounts) two core assumptions: (a)  
975 the *wh*-word *kya*: that I have called a *wh*-expletive is not an expletive at all, but instead the full  
976 Hindi-Urdu *wh*-word *kya*: meaning 'what', and is base-generated in an argument position in the  
977 matrix clause; and (b) the apparently subordinate clause is not an argument of the verb but instead  
978 has some other syntactic status as an adjoined element.

979 Lahiri provides several empirical arguments against various versions of the direct dependency  
980 (DD) approach, or any account that requires that the embedded full *wh*-phrase move to the position  
981 of the *wh*-expletive at LF. He successfully shows that presuppositions of *wh*-expletive construc-  
982 tions, *wh*-expletive constructions with embedded yes/no questions, and the "scope freezing" of  
983 *wh*-expletive structures with amount questions cannot be easily understood in a DD account in  
984 which the full *wh*-phrase must move into the matrix clause at LF, to be interpreted separately  
985 from the remainder of the embedded CP. It is unsurprising that these arguments do not extend  
986 to the *wh*-expletive account presented here, since it does not depend on LF movement of the  
987 embedded *wh*-phrase.

988 For instance, Lahiri (2002) shows that Hindi-Urdu *wh*-expletive structures with embedded  
989 'how many' phrases exhibit scope freezing, in that they permit only narrow scope of the embedded  
990 'how many' phrase (not the ambiguity available in English). Accounting for this under the ID  
991 approach is quite natural, since the question 'How many books did Ram read?' remains intact at  
992 LF and does not permit wide scope of the quantifier. However, a DD account would require a  
993 mechanism by which only the *wh*-word would move to the matrix clause at LF, somehow leaving  
994 the quantifier to be interpreted in situ. Under the *wh*-expletive account presented here, on the  
995 other hand, the *wh*-indefinite in the embedded clause is unselectively bound at a distance and the  
996 quantifier 'many' remains in the embedded clause. Lahiri himself mentions (footnote 2) that the  
997 unselective binding of choice functions would be one way of interpreting structures in which the  
998 *wh*-phrase remains embedded, but he does not evaluate this type of analysis.

999 I now turn to the ID claim that apparently subordinate CPs in Hindi-Urdu are not arguments  
1000 of the matrix verb, but are in some manner adjoined to the matrix clause. I will show here that  
1001 given this assumption, it is impossible to actually generate the LF structure required in the ID  
1002 approach.

1003 An often-repeated fact arguing against this basic assumption is that quantifiers in the matrix  
1004 clause of a *wh*-expletive structure (or any noninterrogative embedded-clause structure) in Hindi-  
1005 Urdu appear to be able to bind pronouns in the embedded clause in the normal way. In (45a–b),  
1006 the quantifier *har a:dmi*: 'each man' in the matrix clause can bind the pronoun *us-ne* 'he-ERG'  
1007 or *wo* 'he' in the second CP (Mahajan 2000).  
1008

(45) a. Har a:dmi:-ne<sub>i</sub> kya: soca: ki us-ne<sub>i</sub> kis-ko dekha:? [Hindi-Urdu]  
 each man-ERG EXPL thought that he-ERG who saw  
 ‘Who did every man<sub>i</sub> think that he<sub>i</sub> saw?’

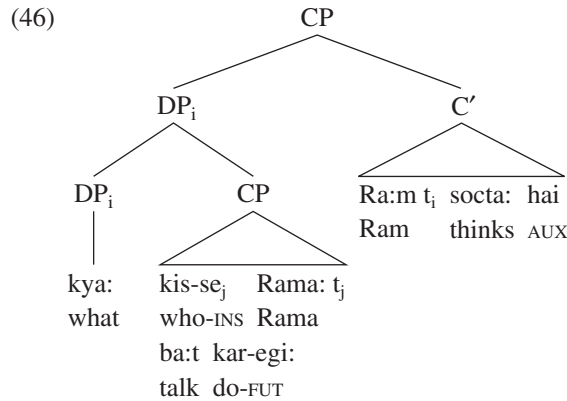
1009

(Mahajan 2000:324)

b. A:p-ne<sub>i</sub> har a:dmi:-ko kya: kaha ki wo<sub>i</sub> kis-ko dekh-ega? [Hindi-Urdu]  
 you-ERG each man-ACC what said that he who-ACC see-FUT  
 ‘Who did you tell every man that he would see?’

1019

1020 The bound interpretation of these pronouns would be unexpected under any version of the ID  
 1021 approach because the pronoun would not be in the scope of the quantifier at LF. Take for instance  
 1022 the LF structure for a *wh*-expletive construction proposed by Lahiri (2002), shown in (46).  
 1023



1024

1026 To solve this problem, Lahiri develops a semantic workaround that mimics the effect of variable  
 1027 binding through keeping the pronoun in the restriction of the *wh*-quantifier and allowing it to be  
 1028 closed off by a universal closure operation. The bound reading of (45a) under this view would  
 1029 then be as follows:

1030 (47)  $\lambda p \exists f [\forall x [Q_x(f(x))] \ \& \ p = \ ^\wedge \forall x (\text{man}'(x) \rightarrow \text{think}'(x, f(x))]$   
 1031 (Lahiri 2002:(114))

1032 Applied to (45a), the restriction in (47) says that for every *x*, *f(x)* (the proposition *x* thinks) is of  
 1033 the type *x saw person y* for some *y*. Lahiri uses the availability of this mechanism to argue for  
 1034 his version of the ID approach, in which the second *wh*-clause is in the restriction of *kya:* at LF.  
 1035 This seems to address the apparent problem of variable binding in *wh*-expletive structures.

1036 Of course, the fact that quantifiers in a matrix clause of the *wh*-expletive structure can bind  
 1037 pronouns in the lower clause is expected under the *wh*-expletive account presented here, as they  
 1038 c-command the variable in the familiar way. For this reason, under my account no special work-  
 1039 around is required. However, there are other facts that pattern with the binding data, suggesting  
 1040 that material in the subordinate clause truly is in the c-command domain of material in the matrix  
 1041 clause at the level of interpretation.

1042 Negative polarity items (NPIs) in Hindi-Urdu have been carefully investigated (Mahajan  
 1043 1990, Lahiri 1998, Kumar 2006). It is well known that the class of weak NPIs, when embedded,  
 1044 can be licensed by negation in a higher clause.  
 1045

(48) Sari:ta:-ne nahi:n kaha: ki koi bhi: a:ya:. [Hindi-Urdu]  
 Sarita-ERG not said that someone even came  
 ‘Sarita did not say that anybody came.’

1036

(Kumar 2006:144)

1052 (49) \*Sari:ta:-ne kaha: ki koi bhi: a:ya:.

1053 It is not possible to demonstrate the same effects in a *wh*-expletive structure, because *wh*-expletives  
 1054 are incompatible with sentential negation (Mahajan 2000, Lahiri 2002, Malhotra and Chandra

1055 2007). However, because both Dayal (1994, 1996) and Lahiri (2002) propose that no subordinate  
1056 clause in Hindi-Urdu (whether in a *wh*-expletive structure or not) is ever a complement to the  
1057 verb, (48)–(49) are crucial to our understanding of the relationship between matrix and subordinate  
1058 clauses in Hindi-Urdu.

1059 Dayal (2000) suggests that apparent embedded clauses are in fact base-generated as adjuncts  
1060 to IP (discontinuous from any scope marker or expletive), since nominal complements appear to  
1061 the left while alleged sentential complements appear to the right. Under the view, as Lahiri (1998:  
1062 80) expresses it, that “the conditions on NPI licensing be statable as LF conditions, involving c-  
1063 command of the NPI by the negative element at LF,” it would be impossible to explain the facts  
1064 in (48)–(49) given the structure Dayal proposes. The NPI in (48) would never be in the c-command  
1065 domain of the negative element at LF, and so the contrast between (48) and (49) would remain  
1066 mysterious.

1067 Following Herburger (1994), Lahiri (2002) proposes another possible structure (though he  
1068 does not choose between this one and Dayal’s alternative, in which *kya:* and the interrogative  
1069 CP form a DP at D-Structure before the CP is extraposed and right-adjoined to IP (to arrive at  
1070 the appropriate surface word order). To create Lahiri’s version of the LF structure under the ID  
1071 approach (see (46)), it seems that the CP must then be reconstructed back into the restriction of  
1072 *kya:* and then the entire DP must move to Spec,CP at LF for scope reasons. So for noninterrogative  
1073 sentences such as (48), the second CP would in principle be reconstructed back into the DP  
1074 containing the overt or covert demonstrative pronoun, and in this way the NPI could be recon-  
1075 structed back into the c-command domain of the negation.<sup>26</sup>

1076 However, there is a challenge for this approach that ultimately prevents us from being able  
1077 to construct the LF structure in (46). Bhatt and Dayal (2007) argue for independent reasons that  
1078 the only type of constituent that can scramble to the right in Hindi-Urdu is a VP remnant. For  
1079 instance, their account derives a sentence with a rightward-scrambled indirect object as in [S DO  
1080 V Aux IO] through having the verb undergo head movement into a higher aspectual projection,  
1081 and the direct object scramble leftward out of the VP. Then the VP projection containing only  
1082 the indirect object (as well as a trace of the direct object) can be moved rightward. Bhatt and  
1083 Dayal speculate (see their section 3.3) that apparently right-adjoined CPs are actually part of a  
1084 rightward-scrambled VP remnant. However, in order to arrive at a VP projection that exhaustively  
1085 contains the second CP from a syntactic structure like the one Lahiri proposes, the direct object  
1086 DP *kya:* would first need to be scrambled leftward out of the VP. Since reconstruction would  
1087 recreate the post-leftward-scrambling but pre-rightward-scrambling order (Bhatt and Dayal 2007),  
1088 we could never arrive at the LF structure Lahiri proposes in (46). The CP will never be able to  
1089 be recombined with the DP *kya:*, since *kya:* has scrambled leftward outside the VP. Moreover,  
1090 the VP remnant is a scope island, so covert movement of the CP after reconstruction of the VP  
1091 containing it is not possible (Bhatt and Dayal 2007). This means that we cannot actually construct  
1092 an LF structure like (46) in which the apparently embedded CP is in the restriction of *kya:* at the  
1093 appropriate scope position.

1094 We have arrived at something of a catch-22 with respect to deriving the ID LF structure in  
1095 (46). Recall that the syntactic approach under the first version of the ID approach (Dayal 2000)  
1096 did not explain the licensing of NPIs in Hindi-Urdu as in (48)–(49). However, the syntax proposed  
1097 under the second version of the ID approach (Lahiri 2002) requires a rightward-scrambling opera-  
1098 tion restricted to an otherwise voided VP remnant. This seems to force a series of operations that  
1099 precludes the creation of the very LF structure this analysis proposes. On the other hand, under  
1100 the *wh*-expletive account presented here, none of these issues arise. Because the second CP is in  
1101 fact the complement of the main clause verb, NPI licensing proceeds as expected (via c-command).  
1102 Since no scrambling in any direction is required, we need not be concerned with reconstruction  
1103 possibilities.

1104 Lahiri’s (2002) version of the ID approach has clear empirical advantages over DD ap-  
1105 proaches, as he demonstrates in detail. However, these criticisms of DD accounts do not extend  
1106 to the *wh*-expletive account presented here, which in fact predicts the very facts Lahiri discusses.  
1107 Further, given a set of independently justified assumptions about Hindi-Urdu syntax, it is unclear

1108 that the LF structure proposed in the ID approach can even be constructed. On the other hand,  
 1109 the *wh*-expletive account effortlessly accommodates phenomena such as variable binding and  
 1110 NPI licensing that must be treated exceptionally under any ID approach.

1111 In this section, I have argued that any account requiring the complement clause to be generated  
 1112 adjoined to the matrix clause, or to be extraposed to this position, is ultimately untenable. As a  
 1113 reviewer points out, we could attempt to rescue the ID account by claiming that the CP sister of  
 1114 *kya:* is not extraposed, but postsyntactically aligned to the right edge of the matrix clause, as I  
 1115 propose in section 2. This version would avoid the problems of LF formation associated with  
 1116 extraposition.

1117 However, this presents us with an empirical puzzle. If the apparent finite-clause complement  
 1118 to the verb were actually the sister of the DP *kya:* in Hindi-Urdu and were obligatorily linearized  
 1119 to the right edge of the matrix clause at PF, we would expect that all finite clauses that are DP  
 1120 complements should behave similarly. However, finite-clause complements of DPs in Hindi-Urdu  
 1121 can optionally remain in situ.  
 1122

(50) a. Mujhe [yah khabar [ki ve log nahī: a: pa:ēge]] [Hindi-Urdu]  
 me.DAT this news that these people not come able  
 kal mili:.  
 1123 yesterday find

1128 ‘I got the news that those people won’t be able to come yesterday.’

b. Mujhe [yah khabar] kal mili: [ki ve log nahī: a: pa:ēge].  
 (Bhatt 2003:3)

(51) a. Mona ja:nti: hai [ki Rohit chaṅṅ hai]. [Hindi-Urdu]  
 Mona know AUX that Rohit cunning is  
 1133 ‘Mona knows that Rohit is cunning.’

b. \*Mona [ki Rohit chaṅṅ hai] ja:nti: hai.  
 (Bhatt 2003:2)

(52) \*Sita-ne *kya:* [ki Ravi:-ne *kis-ko* dekha:] soca:? (cf. (2)) [Hindi-Urdu]  
 Sita-ERG EXPL that Ravi-ERG who-ACC saw thought  
 1148 ‘Who did Sita think that Ravi saw?’

1147 The sentences in (50)–(52) illustrate that CP complements of DPs can optionally appear in situ,  
 1148 but apparent CP complements of verbs cannot. It would then seem that the second CP in *wh*-  
 1149 expletive constructions in Hindi-Urdu (see (52)) does not pattern with CP complements of DP,  
 1150 posing a problem for this patch of the ID approach. The solution is to assume that the second  
 1151 CP in these structures *is* in fact what it appears to be: a clausal complement to the verb.

1152 This brings us to the core issue: expletives are not necessarily theoretically desirable objects.  
 1153 However, in this case we are forced to accept that *kya:* is best understood as an  $\bar{A}$ -movement  
 1154 system expletive, akin to the well-attested A-movement system expletives. Mahajan (2000) claims  
 1155 that the *wh*-expletive *kya:* seems to have prosodic properties that differ from those of the *wh*-XP  
 1156 *kya:*—unsurprising if it is in fact a *wh*-expletive. Overall, the *wh*-expletive account presented  
 1157 here best captures both the nature of *kya:* in long-distance *wh*-dependencies and the complement  
 1158 status of embedded finite clauses in Hindi-Urdu.

## 1159 6 Conclusion

1160 Despite important differences between Hindi-Urdu and Kashmiri, the preferred position in both  
 1161 languages for interrogative and noninterrogative focus is immediately preverbal. The proposal in  
 1162 this article suggests that if *wh*-material (*wh*-phrases and *wh*-expletives) is found at the edge of  
 1163 the CP phase in some languages (like Kashmiri), we should also expect to find it at the edge of  
 1164 the vP phase in others. I claim that Hindi-Urdu is such a language and that we can understand  
 1165 the systematic set of contrasts between Kashmiri and Hindi-Urdu as evidence for the same clausal  
 1166 topology in both languages, lower in Hindi-Urdu (on the v head) and higher in Kashmiri (on the  
 1167 C head). I have made use of this notion to construct a new, unified account of the various strategies

1168 of forming long-distance *wh*-dependencies in the two languages.

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11 audiences at the University of California at Santa Cruz and at the Linguistic Society of America meeting in Albuquerque.  
12 Any remaining errors are my own.

13 <sup>1</sup> Note that the exception to verb-second order in Kashmiri arises when a *wh*-word appears immediately before the  
14 second-position verb. In this case, a DP interpreted as a contrastive topic may also appear preceding the *wh*-word, literally  
15 creating verb-third order (Wali and Koul 1997). For further analysis of verb-second in Kashmiri, see Bhatt 1999.

16 <sup>2</sup> <http://www.paklinks.com/gs/archive/index.php/t-25313.html>

17 <sup>3</sup> Under the analysis of *wh*-movement presented in this article, the subject *wh*-phrase is located in Spec,vP in (8).  
18 In addition, the preferred word order in (8) is the result of subsequent movement of the object DP out of the vP. I assume  
19 here that this evacuation is the result of scrambling; see section 4.2 for further discussion.

20 <sup>4</sup> A reviewer asks how the locality of this kind of linearization can be constrained. Tentatively, we could wonder  
21 whether the restrictions that Fox and Pesetsky (2005) and Sabbagh (2007) place on rightward movement might be adequate  
22 (Order Preservation, Landing Sites). Though space constraints preclude exploring this further here, were these to apply  
23 to postsyntactic linearization, we could account for all of the grammatical positions of the complement, and we could  
24 prevent the ungrammatical orders (summary: the complement clause must be right-peripheral in its clause, and it cannot  
25 appear on the right edge of a finite clause that is higher than the finite clause in which it is embedded). I leave this effort  
26 to future research.

27 <sup>5</sup> In Kashmiri, finite clause surface as verb-second, including embedded clauses preceded by a complementizer.  
28 Kashmiri verb-second is similar in this respect to Germanic verb-second found in Yiddish and Icelandic (Diesing 1990,  
29 Bhatt 1999).

30 <sup>6</sup> As Simpson and Bhattacharya (2003: fn. 3) point out, Mahajan's (1997:209n9) suggestion that the lack of normal  
31 question interpretation for *wh*-phrases in postverbal position in monoclausal sentences supports the view that these elements  
32 have moved to a fixed position in overt syntax.

33  
34 (i) Savita-ne kitaab dii kis-ko? [Hindi-Urdu]  
35 Savita-ERG book gave who-DAT  
36 'Savita gave a book to WHO?'

37  
38  
39 The absence of matrix question interpretation follows from the account presented in section 5.2, since the *wh*-phrase in  
40 (i) is too distant to interact with the matrix C head (and, for that matter, will not satisfy the EPP property on the v head).

41 <sup>7</sup> A reviewer suggests that perhaps the most deeply embedded XP in VP bears focus (similar to the Nuclear Stress  
42 Rule for Romance languages, though this precise requirement cannot hold in syllable-timed Hindi-Urdu; Kidwai 1999:  
43 240). However, preverbal constituents in sentences with canonical linear order need not be focused, and focused phrases  
44 can appear outside the preverbal focus position provided they are marked with heavy (contrastive) stress and/or the suffix  
45 *-hi:*. I assume here that after a focused constituent has valued its features in Spec,vP, it may subsequently scramble (also  
46 see Bhatt 2003). While there are alternative approaches to focus not making use of the specifier of a fixed functional  
47 projection in the syntax, the account presented here overcomes one of the primary objections to the syntactic view (Kidwai  
48 1999). It provides a systematic understanding of the way in which languages exhibit similar positional requirements for  
49 focus at different projections (i.e., CP in Kashmiri and vP in Hindi-Urdu). Further, the proposed analysis of *wh*-in-situ  
50 as an instance of the operation Agree could potentially be expanded to account for focus in languages without a positional  
51 focus requirement.

52 <sup>8</sup> A comparison of (19) and (20) might be taken to suggest that *wh*-movement to Spec,vP is optional in Hindi-Urdu.  
53 However, recall that unmarked interrogative word order is not consistent with declarative word order except in the case  
54 of the direct object (which is preverbal in declarative structures). Since it would be both stipulative and undesirable to  
55 encode such a distinction for *wh*-movement, we can safely assume that all basic *wh*-questions in Hindi-Urdu are derived  
56 via displacement, and the overlap between interrogative and declarative word order in the case of (19) is incidental.

57 <sup>9</sup> A reviewer points out (as does Chandra) that this is not necessarily the case for agreeing or case-marked (hence  
58 specific) objects. In Chandra's account, these objects shift for purposes of agreement/case and not focus. This does not  
59 affect the argument here since we are assessing only whether the position for interrogative focus and noninterrogative  
60 grammatical focus is the same and whether it is plausibly Spec,vP.

61 <sup>10</sup> An alternative view of the EPP is that it is not a property of a head, but instead a property of a feature of a head,  
62 or a "subfeature" (Pesetsky and Torrego 2001). In the account presented here, it would not be possible to claim that the  
63 EPP property is a subfeature of a single specific feature in the *wh*-system since multiple features drive *wh*-dependencies.  
64 However, Pesetsky and Torrego (2007) propose a radically revised system of feature sharing in which valuation and  
65 interpretability of features are independent, meaning that each feature has four guises (combinations of valued/unvalued  
66 and interpretable/uninterpretable). The increase in complexity of the feature itself might permit a single-featured account  
67 of *wh*-dependencies, which in turn would allow us to assume the EPP property to be a subfeature of a single feature. As  
68 it is unclear whether this alternative is empirically distinguishable from the view of the EPP property adopted here, I  
69 leave this question to future research.

70 <sup>11</sup> Wali and Koul (1997) note that many speakers prefer the *wh*-expletive construction over long extraction; however,  
71 the long extractions are accepted, being marked by Wali and Koul from marginal (??) to grammatical (no marking) (pp.  
72 19–20). The native-speaker informants I consulted judged (3) and sentences like it to be grammatical.

73 <sup>12</sup> Permitting a probe to interact with a goal whose features have already been valued requires that we assume that  
74 Agree can take place when the goal is inactive (though Move cannot). For further perspectives on this, see Pesetsky and  
75 Torrego 2007 and Bhatt 2005.

76 <sup>13</sup> For discussion of the Aspect phrase below vP in Hindi-Urdu, see Davison 2003.

77 <sup>14</sup> As a reviewer points out, this analysis predicts that it is possible to derive the crosslinguistically familiar pattern

82 in which an interrogative sentence made up of three or more clauses features a *wh*-expletive in every clause between the  
83 clause hosting the *wh*-phrase and the clause in which the *wh*-phrase is interpreted. Precisely this configuration is found  
84 in Kashmiri (Manetta 2006:109) and Hindi-Urdu (discussed further in section 5.2).

85 <sup>15</sup> The domain of a probe includes its specifier (see Chomsky 2000:123, Richards 2004).

86 <sup>16</sup> A reviewer points out that the account in (32) assumes that *wh*-adjuncts are first merged in a position low enough  
87 to be in the domain of the *v* probe.

88 <sup>17</sup> Rackowski and Richards (2005) use different names for the features involved in *wh*-movement. I will instead use  
89 the feature names presented in Manetta 2006. The outcomes are equivalent.

90 <sup>18</sup> Bruening (2007) argues for an account of Passamaquoddy relative root *wh*-dependencies in which it is not the  
91 scope marker (his term) that remains in Spec,vP but instead a relative root that attaches to the verb phrase. In this approach,  
92 the entire *wh*-element + relative root complex passes through Spec,vP in the matrix clause on its way to the matrix CP.  
93 The *wh*-expletive is spelled out in Spec,CP; however, the relative root is spelled out in the lower Spec,vP. We could  
94 view this as the intermediate result, in some sense, in which some evidence of the presence of the *wh*-element remains  
95 in Spec,vP, though not the *wh*-element itself (Bruening's account relies on multiple spell-out, an idea not addressed here).

96 <sup>19</sup> Note the symmetry between the derivation of partial *wh*-movement in Kashmiri in (26) and partial *wh*-movement  
97 in Hindi-Urdu in (39), in that there is an uninterpretable [Q] feature on the head that hosts the full *wh*-phrase in its  
98 specifier (the embedded C in Kashmiri and the embedded *v* in Hindi-Urdu). The presence of this uninterpretable [Q]  
99 feature arrests the movement of the full *wh*-XP. If the *wh*-XP's uninterpretable features are not fully valued at these  
100 points respectively, the derivation will crash, because it is the *wh*-expletive that is encountered by and interacts with any  
101 higher probes.

102 <sup>20</sup> A reviewer asks, if this type of cross-clausal probing is generally available, why do we not see long-distance  
103 agreement across finite clause boundaries in Hindi-Urdu? Bhatt (2005:777) suggests that, assuming that embedded subjects  
104 are lower than Spec,TP (as I have assumed here), a Minimality-based explanation that does not reference phase boundaries  
105 can prohibit long-distance agreement. He suggests that a matrix finite T<sup>0</sup> cannot 'look past' another finite T<sup>0</sup> (the  
106 embedded one) while looking for an argument with which to value features. Therefore, adopting Rackowski and Richards's  
107 (2005) approach here does not pose a problem for our understanding of limits on long-distance agreement in Hindi-Urdu.

108 <sup>21</sup> There is evidence that intermediate heads in a *wh*-movement sequence should have interrogative features of some  
109 kind. In particular, Henry (1995) observes that in Belfast English subject-auxiliary inversion takes place not only in the  
110 highest C head in a *wh*-movement sequence, but in intermediate heads as well. She takes this as an indication that at  
111 least in this context these intermediate heads share the interrogative status of the matrix C head. In the present account,  
112 this notion is reflected in the [wh] that appears on intermediate C and *v* heads in Kashmiri and on *v* heads in Hindi-  
113 Urdu.

114 <sup>22</sup> Given the assumptions Rackowski and Richards (2005) make about 'transparency,' it may seem that the *v* in  
115 Kashmiri need not have any features associated with *wh*-movement (these features could be on the C head alone). However,  
116 Rackowski and Richards's account is concerned with the way in which verbs agree with clauses, not the way in which  
117 probing heads agree with one another. In Rackowski and Richards's view, it is the agreement of verbs with their complement  
118 clauses (which has a morphological reflex in Tagalog) that permits transparency. It would be an unmotivated extension  
119 of this account to assume that clauses also agree with their verbs and that *v* is then transparent to a probing C. For this  
120 reason, we would need to maintain that *v* heads have *wh*-features in Kashmiri. On the other hand, an account that privileges  
121 a 'mirror-image' view of Hindi-Urdu and Kashmiri *wh*-features would need to take the form of the alternative suggested  
122 in the text, in which every C and *v* head in both languages has features associated with *wh*-movement.

123 <sup>23</sup> Note that if the matrix *v* in either (39) or (40) happened to have an uninterpretable [a] feature, it would have no  
124 discernable effect on the derivation. In either case, the feature would be valued by the uninterpretable [Q] feature on the  
125 *wh*-XP. It is whether or not an uninterpretable [Q] feature appears on the embedded *v* that distinguishes a *wh*-expletive  
126 construction from a *wh*-displacement construction. Once the *wh*-XP has been frozen in place (all features have been  
127 valued) in the lower clause, if no *wh*-expletive happens to be in the numeration to be merged into the matrix clause, the  
128 EPP in the matrix clause cannot be satisfied and the derivation will crash. Note that this represents the solution to a long-  
129 standing puzzle: although *wh*-in-situ phrases in a single clause appear to take scope over the clause as a whole, *wh*-in-  
130 situ phrases in subordinate clauses in Hindi-Urdu do not. The indirect dependency approach has been to force adjunction  
131 of the subordinate clause to the matrix CP/IP to create islandhood. However, in the *wh*-expletive account presented here,  
132 there is a purely syntactic requirement that sentences with a *wh*-phrase from the subordinate clause taking matrix scope  
133 be those with overt *wh*-movement/scrambling or with a *wh*-expletive in the matrix clause.

134 <sup>24</sup> In (44), the *v* head in the intermediate clause has the same feature specification as the lowest *v* head, as opposed  
135 to the features of the matrix *v*. An expletive is required in the intermediate clause to satisfy the EPP property on *v*. The  
136 uninterpretable [Q] feature on the intermediate *v* head values the uninterpretable [a] feature on the *wh*-expletive merged  
137 in its specifier. Of the two interrogative *v* heads available in the lexicon of Hindi-Urdu (both of which bear the EPP  
138 property), the head with the uninterpretable [Q] feature must appear in the numeration of the intermediate clause, or the  
139 resulting derivation will not converge. This is analogous to the situation in two-clause *wh*-expletive structures. For a more  
140 detailed discussion of *wh*-expletive constructions of three clauses or more, see Manetta 2006:chap. 3.

141 <sup>25</sup> A reviewer asks how this approach might account for the matrix scope of *wh*-phrases inside temporal adjuncts  
142 as in (i).

- 143 (i) Ram [kyaa khaa-te hue] ghar ga-yaa?  
144 Ram what eating-while home go-PFV.MSG  
145 'What did Ram go home while eating?'  
146 (Dayal 1996:33)

147 Dayal (1996) suggests that these infinitival phrases are nominal IPs. We could maintain that the full *wh*-phrase inside  
148 the nonfinite clause would move to the edge of the internal verbal domain, whatever form that functional *v* head may  
149 take (see, e.g., Pykkänen 2002, Moulton 2004). It is therefore accessible to higher probes (namely, the matrix C head),  
150 just as the arguments of nonfinite clauses are accessible to processes like long-distance agreement (Bhatt 2005). As we  
151 might expect under the present account, overt movement of argument *wh*-phrases from within infinitival adjuncts into  
152 the matrix clause is also possible (Bhatt 2003).

153 <sup>26</sup> Although NPIs aren't always licensed under reconstruction (\*Any professors weren't available), this possibility  
154 is attested (see, e.g., Aoun and Benmamoun 1998).

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