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<thead>
<tr>
<th><strong>Title</strong></th>
<th>Pseudo-Gapping : an Alleged Case for Scope Parallelism</th>
</tr>
</thead>
<tbody>
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PSEUDO-GAPPING:
AN ALLEGED CASE FOR SCOPE PARALLELISM

1 ISSUE: THE IDENTITY OF MOVEMENT IN PSEUDO-GAPPING

This paper focuses on the pseudo-gapping construction (e.g., Levin 1979). Pseudo-gapping is a kind of ellipsis construction, which at least lacks its main verb. One example is given in the second clause in (1), where the verb and the direct object are missing. The two elided elements are interpreted anaphorically, referring back to the elements in italic in the antecedent clause, namely give and his new toys, respectively.

(1) John won’t give Tom his new toys, but he will _ Mary _.

We refer to a constituent following the elided verb as a remnant (e.g., Mary), and to one contrasted with the remnant in the antecedent clause as a correlate (e.g., Tom).

In the literature, pseudo-gapping is widely analyzed as involving movement of the remnant (Move-R) and phonological deletion of vP/VP (VP-deletion) (e.g., Jayaseelan 1990, Lasnik 1995). Thus, the derivation of (1) is represented as shown in (2).

(2) … but [he [will [Mary [VP-give this new toys]]]]

Here, the indirect object Mary undergoes Move-R to the edge of VP and the extracted domain is deleted by VP-deletion. Given this common analysis, we address the identity of Move-R. That is, what type of movement is involved in pseudo-gapping?

In this paper, we compare two approaches that have not been falsified in the lit-

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Thoms (2016) and Johnson (2008). Thoms proposes a Scope Parallelism approach, and identifies Move-R with Focus Movement along the lines of Jayaseelan (2001) and Gengel (2013). On the other hand, Johnson proposes a Quantifier Raising (QR) approach, where Move-R is treated as an overt instance of QR. Our claim is that the latter is empirically preferable. Specifically, we support Tanaka’s (2017) extension of the QR approach, where he proposes a new phonological theory of QR.

This paper is organized as follows. Section 2 critically reviews Thoms’s (2016) Scope Parallelism approach. Section 3 makes arguments for Tanaka’s (2017) extension of Johnson’s (2008) QR approach. Section 4 lends more support to it by considering a QR-like operation in Icelandic, which Svenonius (2000) refers to as Quantifier Movement. Section 5 concludes with a note on the validity of Scope Parallelism, suggesting that pseudo-gapping offers no conclusive evidence for it.

2 REVIEW: THOMS’S (2016) SCOPE PARALLELISM APPROACH

We begin by sharing Thoms’s (2016) proposal. First, he follows Jayaseelan (2001) and Gengel (2013) in identifying Move-R with Focus Movement (FM) into a focus-oriented phrase, say, ΣP. This functional category projects in the left periphery of vP, with its complement vP deleted after FM applies, as shown in (3). Importantly, Thoms assumes that ΣP can create only one Spec position, hosting polarity particles such as negation not and emphatic too and so (e.g., Laka 1990, López 1999).

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1 See Tanaka (2017) for a critical review of Takahashi (2003, 2004), who unifies Jayaseelan’s (1990) and Lasnik’s (1995) approaches and proposes that Move-R is a combination of Heavy NP Shift and Object Shift.
Second, he proposes that the correlate must also move to a parallel position, namely the Spec of ΣP in the antecedent clause, and that it is done by covert QR. He motivates the covert QR of the correlate by positing a Scope Parallelism (SP) condition on ellipsis as stated in (4) (e.g., Griffiths and Lipták 2014).

(4) **Scope Parallelism in Ellipsis**

Variables in the antecedent and the elided clause are bound from parallel positions.

(Thoms 2016: 295)

Thus, since the remnant is extracted out of the ellipsis site in the ellipsis clause, SP requires that there be a parallel variable-binding relation in the antecedent clause. For instance, the covert structures for (1) are represented as shown in (5).

(5)  

a. QR: \[TP \text{ John won’t } [\Sigma P \text{ Tom}_1 \lambda x_1. [\Sigma P \text{ give } x_1 \text{ his new toys }]]\]

b. FM: \[TP \text{ he will } [\Sigma P \text{ Mary}_2 \lambda x_2. [\Sigma P \text{ give } x_2 \text{ his new toys }]]\]

To support his SP approach, Thoms discusses three facts. First, it appears that the remnant and full negation are in complementary distribution. More specifically, the remnant can occur with contracted negation, which he assumes is a Σ head affixed to T, but it cannot occur with full negation, as shown in (6).

(6)  

a. Students should *bring wine*, but they shouldn’t *beer.*

b. *Students may bring wine, but they may not beer.* (ibid.: 292)

This contrast follows, because full negation is supposed to occupy the Spec of ΣP, and its presence blocks FM of the remnant to the same position. This complementary distribution is a consequence of the assumption that ΣP can host only one Spec.

Second, Move-R can cross the boundary of an infinitival clause, but not that of a finite clause (e.g., Johnson 2008). For example, as shown in (7a), if the remnant is originated in an embedded infinitival clause, it is grammatical, but this is not the case when the remnant is originated in an embedded finite clause, as shown in (7b).

(7)  

a. ? Kathy wants to study *astronomy*, but she doesn’t _meteorology._

b. * Kathy thinks she should study *French*, but she doesn’t _German._ (ibid.: 287, 294)

This contrast is captured if SP requires the correlate to undergo QR into a parallel position. It is well-known that in general QR cannot cross a finite clause boundary, which is suggested by the lack of inverse scope in (8b).
Thus, the ungrammaticality of (7b) is due, not to the impossibility of Move-R across a finite boundary, but to that of QR across a finite boundary. That is, in (7b), QR cannot bring the correlate to the matrix $\Sigma P$, thus inducing a violation of SP, as shown in (9).

\[ [Kathy \ [\Sigma P \ [,P \ \text{thinks} \ [CP \ \text{she should study} \ \text{French} \ ]]]) \]

\[ [\text{she doesn’t} \ [\Sigma P \ \text{German} \ [,P \ \text{think} \ [CP \ \text{she should study} \ t \ ]]) \]

This contrast also follows if the correlate must undergo QR. The point is that the correlate in (10a), but not in (10b), is contained in a comparative phrase (i.e., more annoyed), which Thoms assumes is a quantifier and accessible to QR (e.g., Kennedy 2002). Thus, the correlate in (10b) cannot be moved by QR into the Spec of $\Sigma P$, inducing a violation of SP.

We have shown that Thoms’s SP approach is successful in accounting for the three facts above. However, we point out that it has at least two problems. First, it is a dubious assumption that the remnant and the correlate must move to the unique Spec of $\Sigma P$. To begin, we disagree that the presence of full negation is totally ungrammatical. For instance, two informants accepted (11a) (but not (11b)).

\[ [? \ \text{Although John may like} \ \text{onion}, \ \text{he may not} \ \text{carrot.}] \]

\[ *[? \ \text{Although John may like} \ \text{onion}, \ \text{he may carrot} \ \text{not.}] \]

Even if this fact can be ignored, Thoms should predict that full negation is also prohibited in the antecedent clause, because the correlate must also occupy the unique Spec of $\Sigma P$. This is not true, though, as shown by the grammaticality of (12b).²

² The literature also provides similar acceptable examples, as shown in (i).

(i) a. You might not believe me but you will \_ Bob. \hspace{1cm} (Lasnik 1999a: 204)

b. That may not bother you, but it does \_ me. \hspace{1cm} (Hoeksema 2006: 1)
PSEUDO-GAPPING:
AN ALLEGED CASE FOR SCOPE PARALLELISM

(12) a. The students did *not* date doctors, but they dated nurses.
b. The students did *not* date doctors, but they did _ nurses.

Moreover, multiple remnants, and hence multiple correlates, are possible, as shown in (13) (e.g., Bowers 1998, Baltin 2003, Takahashi 2003, 2004). This suggests that neither of them move to such a position as the unique Spec of ΣP.

(13) a. Although I can’t discuss *this topic with anyone*, I can *that one with Mary*.
b. I can’t talk *to anyone about John’s secret*, but I can *to you about Mary’s*.

Second, there is reason to deny the identification of Move-R with FM. To begin, FM in general cannot apply to multiple elements (while Move-R can, as shown in (13)). For instance, an informant accepted (14) and (15), but not (16), which is an instance of multiple FM.³

(14) Speaker A: Can you discuss this topic with John or Mary?
Speaker B: I can’t discuss *this topic with anyone*, but *that one I can discuss with Mary*.

(15) Speaker A: Can you discuss this topic with John or Mary?
Speaker B: I can’t discuss this topic *with John*, but *with Mary I can discuss it*.

(16) Speaker A: Can you discuss this topic with John or Mary?
Speaker B: *I can’t discuss *this topic with anyone*, but *that one with Mary I can discuss*. *

Furthermore, Move-R cannot apply in the absence of ellipsis, but this restriction does not hold for an instance of FM, namely the FP into the CP periphery. This is shown by the contrast in (17).

³ According to the informant, all of the B-examples in (14-16) require a very specific prosody. He reported that he had to reach each one several times to find the correct prosody. Still, he felt (16B) quite degraded among others. Thus, it is generally true that multiple FM is not possible. As additional support for this, note that multiple FM is also excluded in other languages such as Italian, as shown in (i).

(i) a. **IL TOO LIBRO ho comprato (non il suo).**
   ‘YOUR BOOK I read, not his.’
b. * **A GIANNI IL LIBRO darò (non a Piero, l’articolo).**
   ‘TO JOHN THE BOOK I’ll give, not to Piero, the article.’ (Rizzi 1997: 290)
The point is that Thoms gives no account of why the FM into the vP periphery, but not the FM into the CP periphery, is limited to ellipsis clauses. Thus, the identification of Move-R with FM is not justified, unless their differences are derived in a principled fashion.

In summary, let us assume that the remnant can potentially co-occur with full negation; the alleged contrast in (6) is not real. Then there are at least four facts that any approach should capture, as shown in (18).

Since Thoms’s SP approach fails to capture (18c) and (18d), we conclude that it is empirically untenable.

3 CLAIM: AN EXTENSION OF JOHNSON’S (2008) QR APPROACH

We now argue for Johnson’s (2008) claim that Move-R is an overt instance of QR. In particular, we support the QR approach developed by Tanaka (2017) under the single output model of grammar (e.g., Bobaljik 1995). This model is different from the traditional, dual output model (e.g., Chomsky and Lasnik 1977), in that the former employs only one syntactic cycle with no overt/covert distinction, as shown in (19).

Thus, this model assumes that “covert” movements such as QR result from pronunciation targeting a lower copy of a moved element. This means that the model does not
deny the possibility that the output of QR can be phonologically realized under certain conditions. Given this possibility, let us consider Tanaka’s proposal.

Tanaka begins by making two assumptions. First, he assumes that QR can apply to what is type-theoretically defined as quantifiers, namely expressions of type $<$e, t$, t$ (e.g., Heim and Kratzer 1998). Thus, with type-shifting operations such as Partee’s (1987), any kinds of NPs can be regarded as quantifiers in the above sense. In other words, if Move-R is QR, it follows that it can potentially apply to any kinds of NPs, including indefinites, proper names, and definite descriptions.4 Note that it might be a controversial assumption that QR can apply to “non-quantificational” NPs such as definite descriptions. However, there is a way to render them quantificational, especially when they appear as pseudo-gapping remnants. This is because the remnant must be contrastively focused in semantic terms, as illustrated by Lasnik (1995). For instance, the remnant must be contrasted with its correlate, in the sense that their denotations may not be identical, as shown by the contrast between (20B) and (21B).

(20) Speaker A: Is she suing the hospital?  
Speaker B: She is _ the doctor.  
(Halliday and Hasan 1973: 49)

(21) Speaker A: Is she suing the hospital?  
Speaker B: * Yes, she is _ the hospital.  
(Lasnik 1995: 145)

Also, since focused constituents must contain phonological stress (e.g., Rooth 1992), it is predicted that unstressed remnants are disallowed. This is true, as noted by Hoeskema (2006); consider the contrast in (22), where capital letters indicate stressed elements.

(22) a. Maybe they fool YOU, but they certainly don’t _ ME.  
   b. * Maybe they FOOL you, but they certainly DON’T _ me.  
   (Hoeskema 2006: 9)

Then, what is important is that focused elements can behave as if they are quantificational.

---

4 In the case of PP remnants, we assume that Move-R (= QR) actually applies to their complement NPs, but moves the entire PPs by pied-piping. There is suggestive evidence for this. For instance, Baltin (2000) observes that, while PPs can be remnants, intransitive prepositions alone (or particles) cannot, as shown in (i). This contrast is captured if the PP remnant is a result of pied-piping.

(i) a. Although I wouldn’t _ send it up the stairs, I would _ down the fire escape.  
   b. * Although I wouldn’t _ send it up, I would _ down.  
   (Baltin 2000: 18-19)

5 In fact, it is not true that Move-R can apply to any kinds of NPs. For instance, Baltin (2000) points out that predicative NPs, which are of type $<$e, t$, cannot be remnants, as shown by the contrast in (i). Still, note that this restriction can be given a semantic account under the QR approach; see Tanaka (2017) for more details.

(i) a. The students did not date doctors, but they did _ nurses.  
   b. * The students did not become doctors, but they did _ nurses.  
   (non-predicative NP)
   (predicative NP)
tional. For instance, they induce weak crossover effects in the same way as inherent quantifiers do, as noted by Chomsky (1976). Thus, in the case of pseudo-gapping, there is reason to assume that proper names and definite descriptions are also accessible to QR, because remnants are contrastively focused.

Second, Tanaka assumes that QR can target the edge of nodes of type t, which include vP and TP under the vP-internal subject hypothesis (e.g., Heim and Kratzer 1998). Still, he adopts Fox’s (1998: 26) principle of Shortest Move, which says that, for any quantifier Q, QR must adjoin Q to the node of type t closest to Q. This means that QR must apply successive-cyclically; if QR goes out of vP, it must stop at its edge first, without going in one fell swoop to the edge of TP. Thus, if Move-R is QR, its initial landing site is restricted to the edge of vP. This is shown in (23), where we assume that VP-deletion applies only to the remnant’s sister, namely v′.

\[\text{(23)}\]

Given these assumptions, Tanaka proposes a new phonological theory of QR, especially an algorithm for reducing the chain of QR. The algorithm is given in (24),

---

6 This stipulation, namely the deletion of the remnant’s sister, can be motivated empirically. For instance, Levin (1979) points out that pseudo-gapping can also elide preverbal adverbials, which we assume are adjoined to the left of a projection of v. This is shown in (iB), where the adverb easily is elided.

(i) Speaker A: He could easily convince me.
Speaker B: He could _ me, too.                              (Levin 1979: 21)

Of course, this is not enough evidence for the deletion of the remnant’s sister, because it is not guaranteed that the adverb easily in the elided clause actually appears in the same position as in the antecedent clause. However, the assumption may be required anyway if we want to capture the fact that sluicing, another case of ellipsis, must also elide the remnant’s sister, including the head C, as shown in (ii).

(ii) Speaker A: Mary saw someone.
Speaker B: Who (*did) Mary see?                           (adapted from Lasnik 1999b: 158)
where any copy of \( \alpha \) counts as *accessible* iff it is not deleted independently.

\[
(24) \text{ Chain Reduction Algorithm for QR in English} \\
\text{For the QR chain of copies of } \gamma, \text{ (a) if } \gamma \text{ is focused, delete every copy of } \gamma \text{ except the lowest accessible one; (b) otherwise, delete every copy of } \gamma \text{ except the lowest one.} \quad \text{(cf. Tanaka 2017: 278)}
\]

Importantly, this algorithm correctly predicts that the output of QR can be overt in pseudo-gapping, given that the remnant is focused. For instance, suppose that QR of \( \gamma \) has applied successive-cyclically up to TP, creating the structure in (25).

\[
(25) \left[ \text{TP} \, \gamma_1 \left[ \text{vP} \, \gamma_2 \left[ \ldots \gamma_3 \ldots \right] \right] \right] \quad \text{(where } \gamma \text{ is focused)}
\]

If VP-deletion does not apply, the algorithm predicts that the output of QR is never realized, regardless of whether \( \gamma \) is focused or not. That is, both the (a) and (b) instructions in (24) lead to the same output of QR, deleting every copy of \( \gamma \) except \( \gamma_3 \), as shown in (26). This is because the lowest accessible copy of \( \gamma \) and the lowest copy of \( \gamma \) are the same, namely \( \gamma_3 \). Thus, (26a) and (26b) represent general cases of QR, where its output is covert.

\[
(26) \begin{align*}
\text{a. } & \left[ \text{TP} \, \gamma_1 \left[ \text{vP} \, \gamma_2 \left[ \ldots \gamma_3 \ldots \right] \right] \right] \quad \text{(where } \gamma \text{ is focused)} \\
\text{b. } & \left[ \text{TP} \, \gamma_1 \left[ \text{vP} \, \gamma_2 \left[ \ldots \gamma_3 \ldots \right] \right] \right] \quad \text{(where } \gamma \text{ is not focused)}
\end{align*}
\]

However, if VP-deletion applies and deletes \( \nu'' \), the (a) and (b) instructions lead to different outputs of QR, as shown in (27).

\[
(27) \begin{align*}
\text{a. } & \left[ \text{TP} \, \gamma_1 \left[ \text{vP} \, \gamma_2 \left[ \ldots \gamma_3 \ldots \right] \right] \right] \quad \text{(where } \gamma \text{ is focused)} \\
\text{b. } & \left[ \text{TP} \, \gamma_1 \left[ \text{vP} \, \gamma_2 \left[ \ldots \gamma_3 \ldots \right] \right] \right] \quad \text{(where } \gamma \text{ is not focused)}
\end{align*}
\]

As in (27a), if \( \gamma \) is focused, then its lowest accessible copy is identified with \( \gamma_2 \), because the very lowest copy \( \gamma_3 \) is deleted by VP-deletion independently. Thus, the second lowest copy \( \gamma_2 \) remains undeleted. On the other hand, if \( \gamma \) is not focused as in (27b), the copy \( \gamma_2 \) at the edge of \( \nu' \) must be deleted, because it is not the lowest copy. This means that no copy of \( \gamma \) is realized in this case, given that the lowest copy \( \gamma_3 \) is deleted by VP-deletion. The point is that (27a) represents the case of QR in pseudo-gapping, where the overt copy \( \gamma_2 \) corresponds to the remnant.\(^7\)

\^ Tanaka (2017) notes that (27b) represents the case of covert QR out of VP-ellipsis. That is, (27b) predicts that covert QR of a non-focused object should be possible out of an elided VP. This prediction is borne out by (i), whose ellipsis clause allows the elided quantifier *more than 3 languages* to outscope the negative element *not*.

\(\text{(i) Ken Hale doesn’t speak more than 3 languages. Rob Pensalfini doesn’t as well.} \quad (\text{ellipsis clause: } \neg \text{more than 3 }, \neg \text{more than 3 > not}) \quad \text{(Fox 1998: 46)}\)
We now demonstrate how the QR approach derives the facts listed in (18), which is repeated below.

(28)  
a. Clause-boundedness of Move-R: see (7)  
b. Exceptionality of comparative Move-R: see (10)  
c. Possibility of multiple Move-R: see (13)  
d. Ellipsis-only nature of Move-R: see (17)

To begin with, the QR approach can predict what the SP approach can. We can derive (28a), because the clause-boundedness of QR blocks it from moving the remnant out of a finite clause. Thus, unlike Thom’s account, it does not matter whether the correlate must also move or not. The ungrammaticality of (7b) is simply reduced to the unavailability of Move-R or QR out of a finite clause, as shown in (29).

(29)  
Kathy [vP thinks [CP she should study French]]  
[ she doesn’t [vP German [v′ think [CP she should study t ]]]]

We can also derive (28b) by assuming that the AP remnant in (10a) is contained in a null quantifier phrase, say, Degree Phrase (DegP) (e.g., Kennedy 2002), whereas the AP remnant in (10b) is not. Thus, only the former is a quantifier and can be shifted by QR, as shown in (30).

(30)  
(10a): … than [ she did [vP look [DegP Deg [AP frustrated ]]]]  
(10b): … but [ she didn’t [vP look [AP frustrated ]]]

Furthermore, we can even predict what the SP approach cannot. We can derive (28c), because QR can apply as long as it is semantically allowed; there is no reason to prevent QR from applying to multiple elements. This point will be discussed in more detail later, but for now, assume that multiple QR targets multiple edge positions of vP, as shown in (31).

(31)  
(13a): … [ I can [vP that one [v′ with Mary [v′ discuss tt ]]]]  
(13b): … [ I can [vP to you [v′ about Mary’s [v′ talk tt ]]]]

Note that here we expect Richards’s (2001) “tucking-in” effects to arise. Crosslinguistically, if movement of multiple elements targets the edge of the same head, the origi-
nal hierarchical order of the moved elements is preserved; that is, a lower element must tuck in beneath a higher element. Thus, the prediction is that the order of multiple remnants may not be altered. As Takahashi (2003) notes, this is the case, and illustrated by the contrast in (32).

\[(32)\]
a. Although I can’t discuss this topic with anyone, I can that one with Mary.
b. ?? Although I can’t discuss this topic with anyone, I can with Mary that one.

Finally, we can also derive (28b), because in the absence of VP-deletion, the (a) instruction in (24) disallows the output of QR to be overt, thus resulting in the pattern in (26a). Specifically, regardless of whether QR brings copies of the remnant to both vP and TP, the lowest accessible copy of it is in its base position and must remain undelated, as shown in (33).

\[(33)\]
\[
\text{(17a): } \left[\text{TP beer [ John will [vP beer [ bring beer to the party ]]]} \right]
\rightarrow^{\text{Deletion}} \left[\text{TP beer [ John will [vP beer [ bring beer to the party ]]]} \right]
\]

Given these outcomes, we therefore conclude that the QR approach is empirically preferred to the SP approach.

4 SUPPORT: A VIEW FROM QUANTIFIER MOVEMENT IN ICELANDIC

One might not be satisfied with our account of the fact in (28c), because we did not demonstrate that QR can actually move multiple elements. This point is difficult to make in a visible way, since QR in English applies covertly in general cases. However, there are other languages where we can do that. For instance, Svenonius (2000) argues that Icelandic has an overt instance of QR, which he calls Quantifier Movement (QM). One property of QM is that it is obligatory for negative quantificational NPs, but only optional for non-negative ones, as shown in (34) and (35).\(^8\)

\[(34)\]
a. * Strákarnir hófðu hent engu grjóti í bílana.
the.boys had thrown no rock in the.cars

---

\(^8\) QM is different from a well-known movement operation in Icelandic, namely Object Shift (OS), in that OS, but not QM, is subject to Holmberg’s Generalization (Holmberg 1986). That is, OS is blocked from crossing overt non-adverbial elements such as in-situ verbs, but QM is not.
b. Strákarnir höfðu engu grjóti hent í bílana.
the.boys had no rock thrown in the.cars
(Svenonius 2000: 260)

(35) a. Strákarnir höfðu hent miklu grjóti í bílana.
the.boys had thrown much rock in the.cars

b. ? Strákarnir höfðu miklu grjóti hent í bílana.
the.boys had much rock thrown in the.cars
(ibid.: 261)

Note that optional QM such as in (35b) is stylistically marked. However, as emphasized by Svenonius, many such examples are perfect for many speakers, so that we safely assume that optional QM is essentially acceptable. Thus, all we can say about the applicability of QM is that the more negative a quantifier is, the more necessary it is for the quantifier to undergo QM, as Rögnvaldsson (1987) demonstrates by using the following examples.

(36) a. * Jón hefur lesið engar bækur.
John has read no books

b. Jón hefur engar bækur lesið t.
John has no books read (Rögnvaldsson 1987: 6)

(37) a. ? Jón hefur lesið fjáar bækur.
John has read few books

b. Jón hefur fjáar bækur lesið t.
John has few books read (ibid.)

(38) a. Jón hefur getað lesið dálitið.
John has could read a little

b. Jón hefur dálitið getað lesið t.
John has a little could read (ibid.)

In the remainder of this section, we follow Svenonius in assuming that QM is indeed an overt instance of QR, and show that a close look at QM lends support to our account of the fact in (28c).

Let us begin by checking the basic properties of QM. First of all, as implied above, QM cannot apply to non-quantificational NPs, such as indefinites, definite descriptions, and proper names, as shown in (39).
Still, note that there is a focus effect on the applicability of QM. For instance, Svenonius reports that, for some speakers, QM can apply to weak quantifiers such as numerals, and that four of six polled accepted (40), where a numeral is moved. In other words, the status of (40) varies from speaker to speaker, which is indicated by %.

What is important here is that “for the [two] speakers who rejected [(40)], similar examples with [the focus particle] bara ‘only’ before the numeral were substantially improved” (Svenonius 2000: 262). Thus, although QM is basically for quantificational expressions, the assignment of focus to an element makes it more accessible to QM. This is reminiscent of English QR, as we have assumed that it can be applied to focused elements, particularly in the case of pseudo-gapping. While the focus effect on QM remains to be investigated in more detail, it seems true that Icelandic QM and English QR pattern in the same direction.

In fact, there is additional support for these lines of reasoning. That is, QM can escape infinitive clauses, but not finite/indicative clauses, as shown in (41) and (42). This behavior of QM patterns with that of QR.
(42) a. *Hún hefur lengi vitað að hann getur keypt margt.
   she has long known that he can bought many
   ‘She has long known that he could buy many.’

b.  *Hún hefur lengi margt vitað að hann getur keypt t.
    she has long many known that he can bought
    (ibid.: 267-268)

Given this contrast, we take it for granted that QM is overt QR. Then if we are correct in claiming that Move-R is overt QR, it is predicted that the same restrictions on QM are also applied to Move-R. This seems true. For instance, if there are multiple auxiliaries, QM must move an NP to the left of the highest non-finite auxiliary verb. This holds for both negative and non-negative QM, as shown in (43) and (44).

(43) a. Hann mun ekkert hafa getað gert t.
   he will nothing have could done

b. *Hann mun hafa ekkert getað gert t.
   he will have nothing could done

c. *Hann mun hafa getað ekkert gert t.
   he will have could nothing done
   (Rögnvaldsson 1987: 8)

(44) a. Hann mun mikið hafa viljað lesa t.
   he will much have wanted read

b. *Hann mun hafa mikið viljað lesa t.
   he will have much wanted read

c. *Hann mun hafa viljað mikið lesa t.
   he will have much wanted read
   (Svenonius 2000: 266-267)

Note that the finite auxiliary verb (e.g., mun ‘will’) is supposed to move to the head T or higher, so that it is assumable that the actual landing site of QM is the edge of the phrase originally projected by the finite auxiliary verb, which is later extracted by head movement; that is, QM targets the edge of the highest headless AuxP. For example, the structure for (44a) can be represented as shown in (45).

(45) [TP Hann [T’ mun₁ [Aux₃ mikið [Aux’ t₁ [hafa viljað lesa t ]]]]]
Thus, if Move-R patterns with QM, it should follow that Move-R also moves the
remnant to the left of the highest non-finite auxiliary verb. This prediction is borne
out, as shown in (46), a fact which is noted by Thoms (2016).

(46)  a. Rab has been drinking beer, and Tam has wine been drinking t.

b. * Rab has been drinking beer, and Tam has been wine drinking t.

(Thoms 2016: 290)

This restriction on Move-R can be derived if Move-R is overt QR and must target the
edge of nodes of type t. For instance, let us assume that auxiliary verbs are of type
<<e, t>, <e, t>>. This means that an auxiliary verb is merged with a predicate (type
<e, t>) whose subject has yet to be introduced, and base-generates the subject at its
dge. Under this assumption, if there are multiple auxiliaries, the maximal projection
of the highest Aux is the node of type t closest to any vP-internal elements, and hence
the initial landing site for Move-R/QR, as shown in (47).\footnote{Since we rely on non-event semantics, we assume that the little v, which is responsible for introducing external arguments, is of type <<e, t>, <e, t>> and denotes something close to λPλx.[Agent(x) \& P(x)] (cf. Kratzer 1996). For instance, the denotation of vP in (47) is λx.[Agent(x) \& drink(x)(wine)], if we semantically reconstruct the moved object.}
One possible argument for this typed tree is that it is compatible with the distribution of floating quantifiers such as *all*. According to Dowty and Brodie (1984) and Bobaljik (1995), floating quantifiers are adverbials and expressions of type <<e, t>>, <e, t>>. Thus, one prediction from the typed tree in (47) is that floating quantifiers can be adjoined to any of the nodes of type <e, t>. This is borne out, as shown in (48).

(48) a. The proletarians all would have been working.
   b. The proletarians would all have been working.
   c. The proletarians would have all been working.
   d. ? The proletarians would have been all working.

(Bobaljik 1995: 209)

Moreover, the typed tree leads to another prediction. That is, it should hold that no floating quantifier can occur right above or below the remnant. This is because the AuxP right above the remnant is of type t, hence not a possible site for adjunction of floating quantifiers, and the Aux’ right below the remnant, although being of type <e, t>, is contained in the domain deleted by VP-deletion. This prediction is also met, as shown in (49) and (50).

(49) a. Although many of them like their coach’s methods, they don’t all like his personality.
   b. ?? Although many of them like their coach’s methods, they don’t all ___ his personality.
   c. * Although many of them like their coach’s methods, they don’t ___ his personality all.

(50) a. Neither of them likes my girlfriend, but they both like my sister.
   b. ?? Neither of them likes my girlfriend, but they do both ___ my sister.
   c. * Neither of them likes my girlfriend, but they do ___ my sister both.

Considering these results, let us assume that Icelandic QM and English Move-R or QR are the same movement operation. We now return to our account of the fact in (28c), namely that multiple Move-R is possible. The question is whether QR can actually move multiple elements. This can be clarified if we consider whether QM can do that. According to Svenonius (2000), it is possible in principle, as shown in (51).

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10 It appears that there is speaker variation on this kind of examples. For instance, while Merchant (2008) judges similar examples as unacceptable, Tanaka (2011) reports that they are marginally acceptable. However, note that their examples include an extra element between the floating quantifier and the remnant, namely the adverb yet, which is likely to interfere with their judgements, especially Tanaka’s.

11 It should be noted that some cases of multiple QM are not acceptable; see Svenonius (2000: 281).
PSEUDO-GAPPING:
AN ALLEGED CASE FOR SCOPE PARALLELISM

Thus, there is reason to believe that multiple QR is available in English, suggesting that our account of the fact in (28c) is on the right track.

5 CONCLUSION: THE VALIDITY OF SCOPE PARALLELISM

In this paper, we addressed the identity of Move-R in pseudo-gapping, and compared two approaches which have not been refuted for any good reasons: Thoms’s (2016) SP approach and Tanaka’s (2017) extension of Johnson’s (2008) QR approach. In order to verify them, we considered the following four facts.

(52) a. Clause-boundedness of Move-R: see (7)
b. Exceptionality of comparative Move-R: see (10)
c. Possibility of multiple Move-R: see (13)
d. Ellipsis-only nature of Move-R: see (17)

Based on these facts, we argued that the QR approach is preferable, because it derives all the facts, while the SP approach fails to explain (52c) and (52d). Furthermore, we made an additional argument for the QR approach by pointing out that the behavior of Move-R patterns with that of an overt instance of QR in Icelandic, namely QM. We therefore concluded that Move-R should be identified with overt QR.

If our claim is on the right track, then it carries an implication for Thoms’s (2016) SP condition in (4), repeated below.

(53) Scope Parallelism in Ellipsis
Variables in the antecedent and the elided clause are bound from parallel positions. (Thoms 2016: 295)

That is, the validity of SP cannot be supported in light of pseudo-gapping, because it plays no role in the QR approach; we can explain a variety of facts without SP. Certainly, Thoms argues that the postulation of SP explains other facts. For example, pseudo-gapping cannot be used to answer a wh-question, as shown in (54B).
(54) Speaker A: What (else) did he eat?  
Speaker B: *He did a salad.  

(54) B

The unacceptability of (54B) follows from SP, because the correlate (i.e., what) and the remnant (i.e., a salad) are not in parallel positions. However, this account cannot be carried over to the unacceptability of (55B), where the remnant appears to be in a position parallel to that of the correlate.

(55) Speaker A: What else did he eat?  
Speaker B: *A salad he did.

Thus, pseudo-gapping makes no conclusive evidence for SP. We leave it for the future study what account is possible for the status of (54B) and (55B).

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