Reordering under diamond control
Abstract

An alternative analysis for Latin reordering possibilities using one single composition mode $\blacklozenge$, for which no structural rules apply. Instead, we have decorated the lexical type assignments with a modal prefix $\lozenge$ in strategic positions. The earlier structural rules

\[
P1: \quad B \blacklozenge_2 A \vdash A \blacklozenge_2 B \\
P2: \quad B \blacklozenge_2 (A \blacklozenge_1 C) \vdash A \blacklozenge_1 (B \blacklozenge_2 C)
\]

are reformulated in such a way as to be keyed to the (structural counterpart $\langle \cdot \rangle$ of the) $\lozenge$ operator.

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1. Your fragment

1.1. Postulates

\[ B \bullet \diamond A \vdash \diamond (A \bullet B) \quad [P1] \]
\[ \diamond B \bullet (A \bullet C) \vdash A \bullet (\diamond B \bullet C) \quad [P2] \]

1.2. Lexicon

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>cum</td>
<td>(pp/abl) – with</td>
</tr>
<tr>
<td>laude</td>
<td>(\square abl) – honor</td>
</tr>
<tr>
<td>maxima</td>
<td>(\square (abl \backslash abl)) – highest</td>
</tr>
</tbody>
</table>
2. Run your examples

1. cum maxima laude ⊨ pp
2. cum laude maxima ⊨ pp
3. maxima cum laude ⊨ pp
4. laude cum maxima ⊨ pp
5. laude maxima cum ⊨ pp
6. maxima laude cum ⊨ pp
3. Interactive session

Test example

Type in an example:

Goal formula:

Use Polish prefix notation for goals. Atomic formulas and modes should be atoms. Use the atom \[\text{(nil)}\] if you don’t want a mode index. Input connectives as $\Diamond : \text{dia}$, $\Box : \text{box}$, $\bullet : \text{p}$, $\slash : \text{dr}$, $\\ : \text{dl}$. Example: $\Box (np\_1s)$ becomes $\text{box} \[\text{dl} 1 np s\].

Display options

Structure labels: Yes ☑ No ☐ Semantic labels: Yes ☑ No ☐
Lexical semantics: Yes ☑ No ☐ Unary semantics: Yes ☑ No ☐