The key points: Given a type \( n \) invariant \( \nu \) we are seeking a not-necessarily invariant extension \( \overline{\nu} \) of \( \nu \) to \( \nu\text{Kds} \) (virtual knot diagrams) with the following mandatory properties:

0. \( \overline{\nu}\big|_{\text{knots}} = \nu \).
1. \( \overline{\nu}(X) = \overline{\nu}(X') - \overline{\nu}(X'') \) \( \text{ALWAYS} \).
2. \( \overline{\nu} \) vanishes on \( \nu\text{Kds} \) w/ more than \( n \) \( \times \).
3. \( \overline{\nu}\circ S^{-1} \) vanishes on \( \nu\text{Kds} \) w/ more than \( n \) \( \times\text{gs} \).

Effective properties:

4. \( \overline{\nu} \) is invariant under descending peripheral extensions of double-point-only \( \nu\text{Kds} \).
5. \( \overline{\nu}\left( \begin{array}{c} \bullet \\ \frac{1}{i} \end{array} ; \begin{array}{c} \bullet \\ \frac{1}{j} \end{array} \right) = \overline{\nu}\left( \begin{array}{c} \bullet \\ \frac{1}{i} \end{array} ; \begin{array}{c} \bullet \\ \frac{1}{j} \end{array} \right) \)

\[ \Box \text{ If } \overline{\nu} \text{ satisfying the mandatory properties exists, can we always modify it to find a } \overline{\nu} \text{ also satisfying the effective properties?} \]

\[ \Box \text{ Restate the effective properties of } \overline{\nu} \text{ in terms of } \overline{\nu}\circ S^{-1} \]

\[ \Box \text{ Can we also add invariance under } R1 \text{ & } R2? \]