GPV: Fixing the Extension of nu

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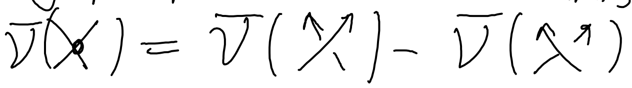
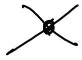
3:15 PM

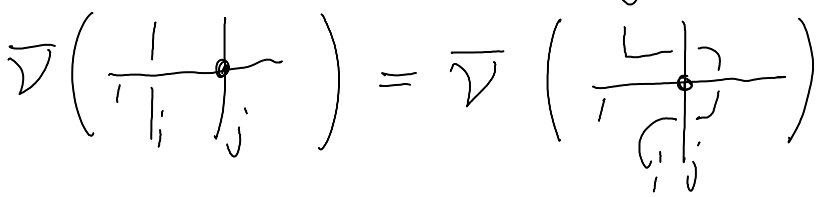
(continues http://katlas.math.toronto.edu/drorbn/bbs/show?shot=Roukema-090814-105947.jpg)

The Key points: Given a type n invariant ν we are seeking a not-necessarily invariant extention $\bar{\nu}$ of ν to vkds (virtual knot diagrams) with the following

mandatory properties: 0. $\bar{\nu}|_{\text{knots}} = \nu$.

1.  ALWAYS.
2. $\bar{\nu}$ vanishes on vkds w/ more than n .
3. $\bar{\nu} \circ S^{-1}$ vanishes on vkds w/ more than n xings.

elective properties:

4. $\bar{\nu}$ is invariant under descending periphural extensions of double-point-only vkds.
5. 

Q: If $\bar{\nu}_0$ satisfying the mandatory properties exists, can we always modify it to find a $\bar{\nu}$ also satisfying the elective properties?

Q: Restate the elective properties of $\bar{\nu}$ in terms of $\bar{\nu} \circ S^{-1}$

Q: Can we also add invariance under R1 & R2?