Dror Bar-Natan: Classes: 2003-04: Math 1350F - Knot Theory:

Homework Assignment 8: Primitives; W_L is well defined

Assigned Thursday November 6; due Thursday November 13 in class.

To be handed in. Recall that the primitives of \mathcal{A} are the connected diagrams. Prove that they generate \mathcal{A} — that every element of \mathcal{A} is a sum of products of primitives.

Recommended for extra practice. Check that indeed $W_{L,\langle\cdot,\cdot\rangle,R}: \mathcal{A} \to \mathbb{F}$ is well defined. (I.e., does not depend on the all choices (especially the bases) and vanishes on AS, STU and IHX).