17-1350-AKT Tue Feb 7, Gentle Hours 9-10: Γ-calculus

February 7, 2017 8:32 AM

1. Last week's blackboards in brief: Do the theories work for the meta-monoids I've introduced? Will they work for the childishly simple meta-monoid I'll introduce today?
2. Linear Control Theory and \Gamma_0-calculus.
3. Implementation, verification.
4. The R-matrix.
5. Some invariants.
6. The \omega extension.
7. Implementation, verification, computations.
8. The meta-Hopf structure.

To do:

1. Improve "Format[Gamma…"
2. Figure out what the "extra" Burau solutions do.

Then finite type invariants…

1. Filtered & graded vector spaces, the functors gr & Fil, expansions.
2. homomorphic expansions.
3. Example $R=C^\infty(\mathbb{R}^n)$ $I=\{f : f(0)=0\}$, ….
4. Example. Expansions for groups.
5. Filtrations on tangles.
6. $A^u(S)$