

Costantino on Non-Semi-Simple TQFTs, I

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Joint with C. Blanchet, N. Geer, B. Patureau

- Motivation

- The structure of $\text{Rep}(U_q^H \mathfrak{sl}_2)$

- Construction of invariants of 3-manifolds.

Costantino: Who needs more invariants of 3-manifolds?

old	new
RT TQFT	\exists "non semisimple TQFT" see Blanchet's talk.
RT Invariants	\exists invariants $Nr(M, T, W)$
Invariants of links in S^3	ohsaki-Deguchi-Akutsu? \downarrow ADO invariants of links aka colored MVA invariants.
$\text{Rep}(U_q \mathfrak{sl}_2)$	$\text{Rep} U_q^H \mathfrak{sl}_2$

Fix $r \geq 2$,