

Facts and Dreams About v-Knots and Etingof-Kazhdan

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12:17 PM

Minutes	Topic
8	The Peter Lee setup for R,I, "all interesting graded equations arise in this way".
3	Example: the pure braid group (mention PvB, too).
3	Generalized algebraic structures.
1	Example: quandles.
4	Example: parenthesized braids and horizontal associators.
6	Example: KTGs and non-horizontal associators. ("Bracket rise" arises here).
5	Example: wKO's and the Kashiwara-Vergne equations.
15	vKO's, bi-algebras, E-K, what would it mean to find an expansion, why I care (stronger invariant, more interesting quotients).
5	wKO's, uKO's, and Alekseev-Enriquez-Torrosian.
1	The third page.
51	Total.

Abstract. I will describe, to the best of my understanding, the relationship between virtual knots and the Etingof-Kazhdan quantization of Lie bialgebras, and explain why, in my humble opinion, both topologists and algebraists should care. I am not happy yet about the state of my understanding of the subject but I haven't lost hope of achieving happiness, one day.

Use "Forbidden Approximate Theorem".