

Perhaps this should be a Regina warm-up?

Meta-groups, meta-bicrossed-products and the Alexander polynomial.

1. Philosophy about number theory, knot theory, and algebraic structures. Perhaps put

$$KT = \langle \mathbb{Z} \rangle / R123 = TT$$

2. Flash the  $\beta$ -formulas.
3. An invariant by multiplying group elements along a knot [should fail].
4. Meta-groups & a few examples.
5. Cross products & meta cross products.
6. Our meta-cross product.
7. "Thm" This contains the Alexander polynomial [and likely/hopefully] also the MVA.
8. This does much better than the Alexander polynomial.
9. Some open questions.

10. Where did it come from?

Ans 1. I don't know.

Ans 2. The w-story.