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

\[ KT = \langle S^3 \rangle / R_{123} = \mathbb{T} \]

2. Flesh the \( \beta \)-formulas.

3. An invariant by multiplying group elements along a knot \([\text{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 \([\text{and likely/hopefully}]\) also the MVA.

8. This does much better than the Alexander polynomial.

9. Some open questions.
10. What did it come from?
   Ans 1. I don't know.
   Ans 2. The W-Story.