13-Aarhus Day 3: KTGs, AKT, Associators

May-29-13
3:19 AM

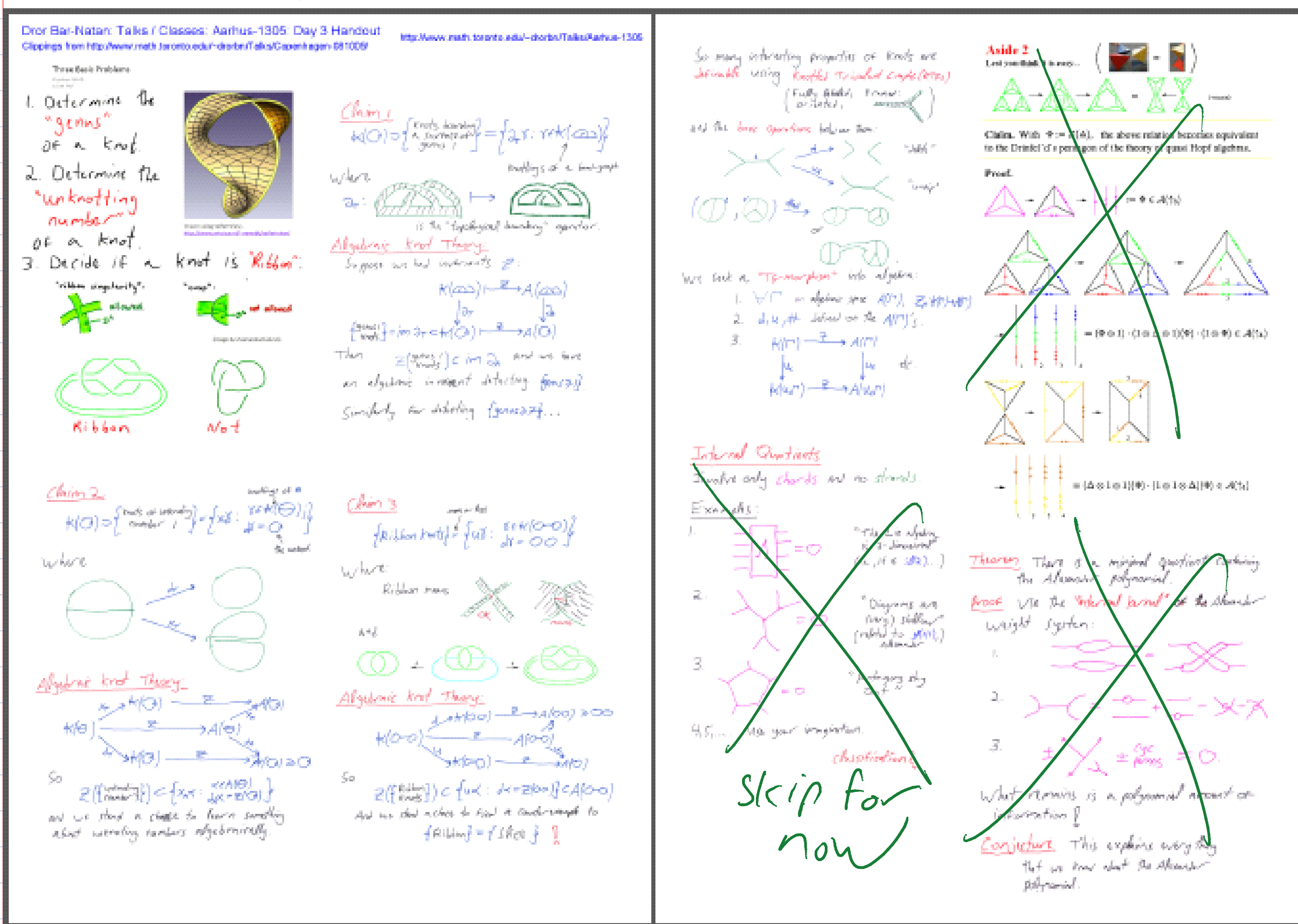
Optimistic Rough Tentative Plan. Second introduction: algebraic knot theory. Then KTGs to the pentagon and the hexagon.

Pasted from <http://www.math.toronto.edu/~drorbn/Talks/Aarhus-1305/>

0. On board:

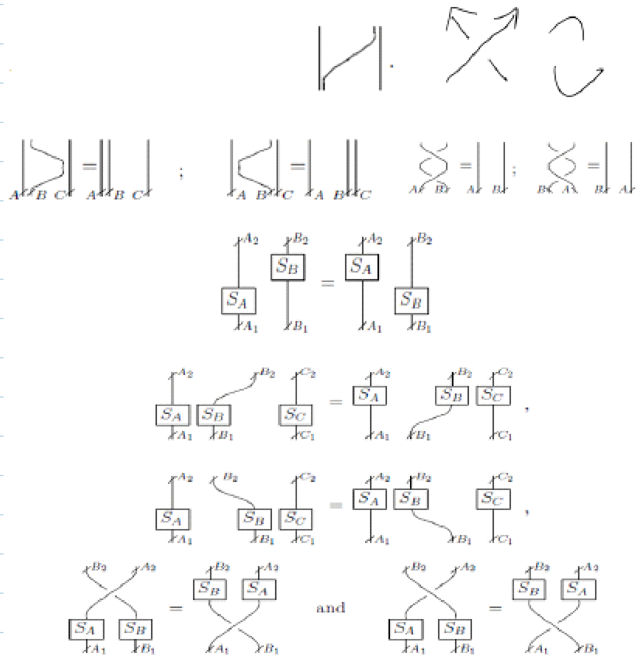
Define $F: \tilde{\mathcal{A}} \to \mathcal{A}$ by $F(D) = \sum_k \frac{(-\theta)^k}{k!} \frac{d^k D}{d\theta^k}$, and $Z(K) = e^{sl(K)\theta} \cdot F(Z(\tilde{K}))$. Then Z is a UFTI of framed knots.

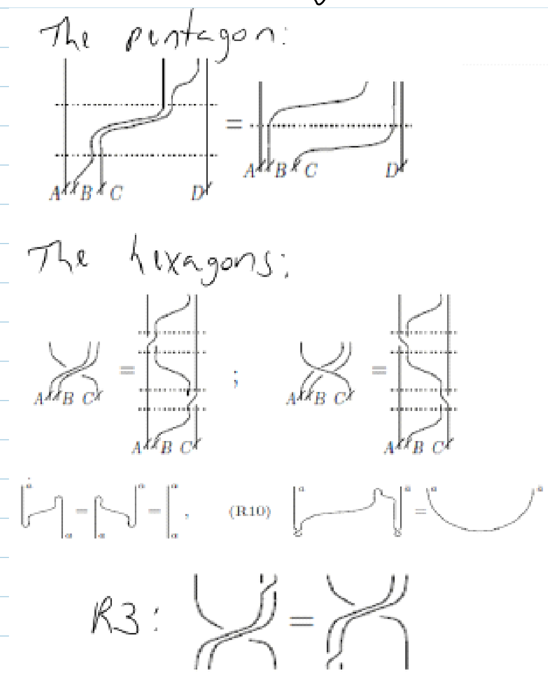
1. AKT as planned:



2. Associators as was planned for yesterday.

The pentagon:





3. KTG are the "same" as associators. } not done

4. Low algebra into universal env. algebras.

5. The projectivization machine. } not done