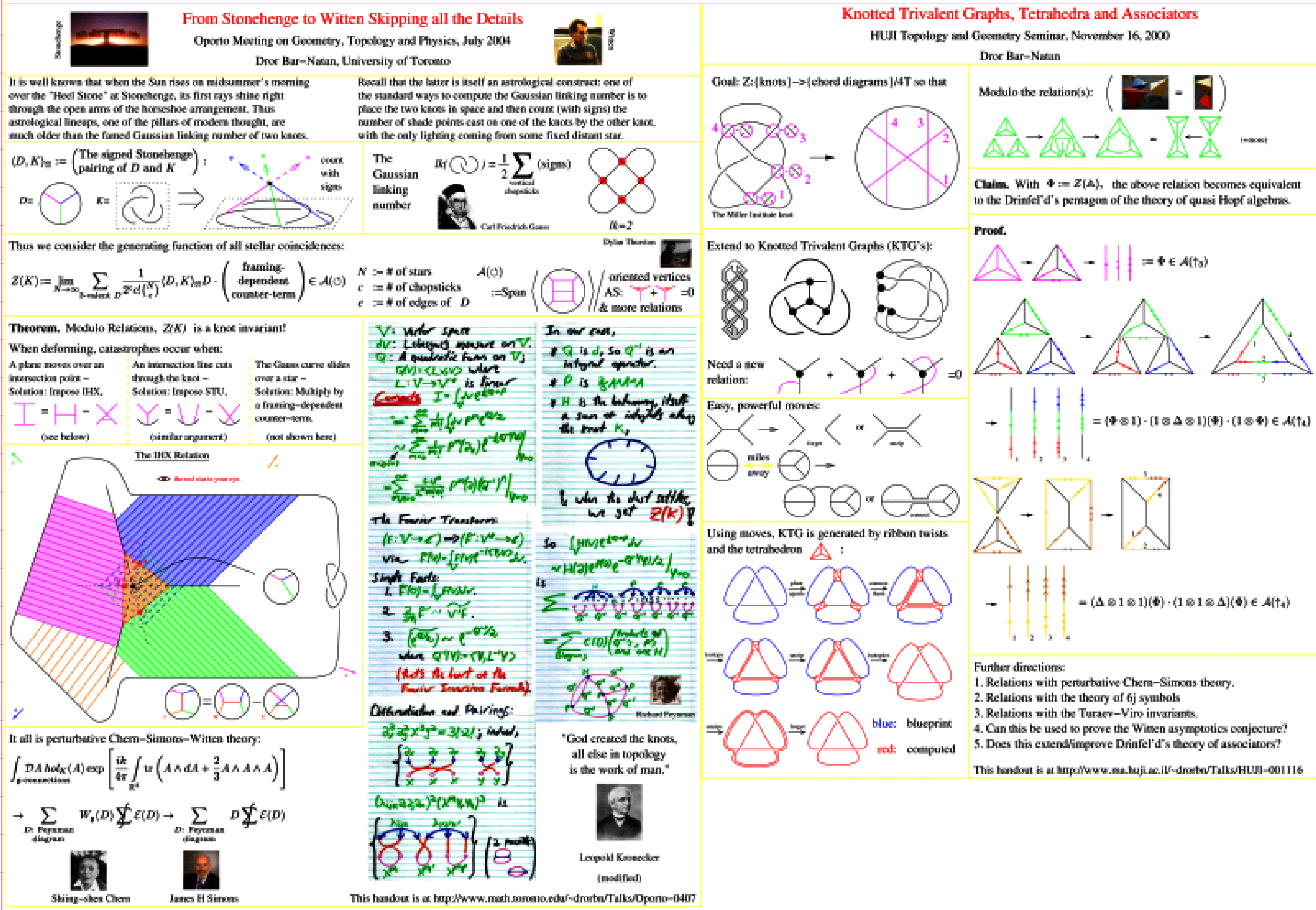
13-Aarhus Day 4: Stonehenge and Chern-Simons, more on KTGs, some loose ends

May-30-13
11:01 AM

Optimistic Rough Tentative Plan. Third introduction: Stonehenge. Then perturbative Chern-Simons theory.

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

1. Go over handout



2. Some calls from reality:
a. Nobody has ever written up the Stonehenge story properly.
b. Perturbation theory is more complicated than I made it appear.
c. Stonehenge / Configuration space integrals / CS was never completed for KTGs.

2. There is a KTG invariant but it is only nearly homomorphic
One Fix: "splits" for vertices
3. The map PaB $\longrightarrow$ KTG
4. Twisting on PaB & on KTG; on knots, associator invariants are independent of the associator.
5. The projectivization machine.