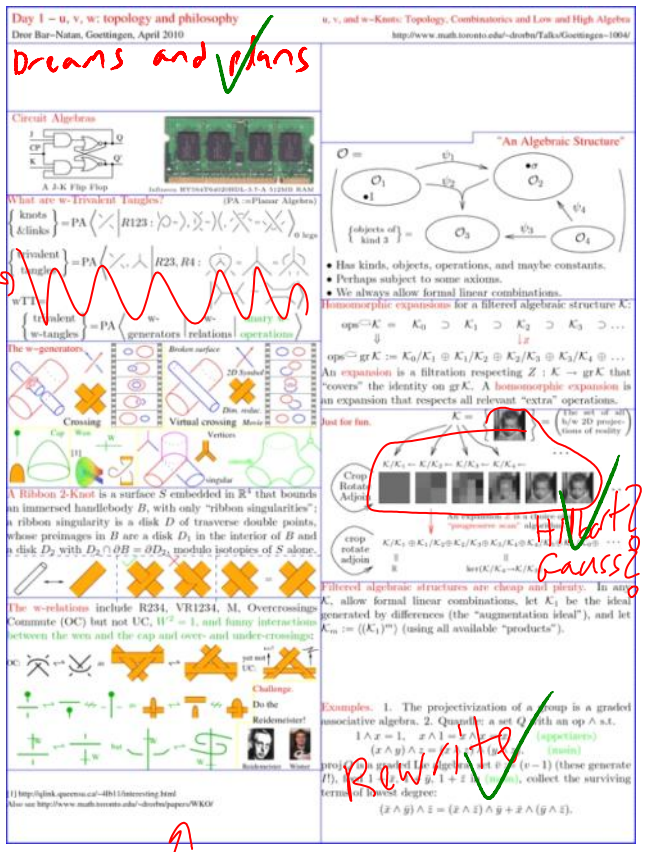
Goettingen - Saturday preps

April-24-10
1:46 PM



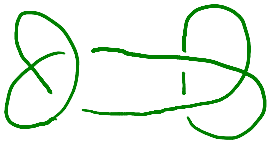
- Dreams and plans.
- Knots, planar diagrams, Reidemeister moves, virtual knots are to knots as manifolds are to Euclidean spaces, flying rings and knotted tubes in 4D and w-knots.
- Planar algebras and circuit algebras.
- The abstract machine - filtered and graded spaces, expansions and homomorphic expansions, equations in graded spaces.

Dreams and plans:

(Arbitrary algebraic structure) → (projectivization machine) → (a problem in graded algebra)

1. Feed knot-things, get Lie alg things
2. Feed w-knots, get Drinfeld associators.
3. Feed w-knots, get KVAT
4. Dream: Feed v-knots, get EK
5. Dream: knowing the question whose answer is 42 (or EK) will be useful to algebra and topology.

add a v-knot example and a v-knot example.



, knots on a surface.