## Oberwolfach talk

April-19-14 10:12 AM

Idea: "Wednesday in 4D" (though with content converging to Monday combinatorics)

Idea: "A 4D Challenge"

Idea: "Some very good formulas for the Alexander polynomial".

- 1. The ugly dm formula (and the \* formula).
- 2. Defines an invariant of v-tangles.
- 3. Why bother good computationally (show demo), AKT, categorification.
- 4. The map into 4D tubes and then into B&H.
- 5. Operations on B&H: \*, hm, tm, tha.
- 6. A word about trees and wheels.
- 7. A word about BF.

but first figure out

Vall prior art.

Also Figure out strong

doubling.

Talk iden:
"2-chord ding ams"

(90 straight From
simply-knotted 2-knots
to FL(T) HOCW(T).

Iden: "Some very good formulas for the Alexander polynomial".

1. Then I an invariant W/ & & mas [use

G-Ssher Form].

2. Advantages, Computations. ? SKBH's

3. Thm I an invariant of wkBH'S --- [B calculus]

4. Re relationship between the two.

J. Thm. I am invariant of WKBH'S []: > FZ+xcv)

6. Computations.

7. CS is A UFTI

8. }, or at lesst some or it, seems to extend to all KBH's, using BF. Does it?