Oberwolfach talk

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, the.
6. A word about trees and wheels.
7. A word about BF.
al prior art. Also figure out strand doubling.

Talk idea:
" 2-chord ding ans"
(go straight from
simplj-knotto, $2-k n d s$ to $F L(T)^{1+} \oplus C W(T)$.
Iden: "Some very good formulas for the Alexander polynomial".

1. The $\exists$ ! an invariant wi * $k m_{c}^{a b}$ [use
Gasser form].
2. Advantages, Computations. SKBH's
3. The $7!_{0}$ an invariant of WK BH'S.... [Bcolculls $]$
4. Te relationship between the two.
 6. Computations.
5. © ${ }^{3}$ is a UFTI
6. 3, or at least sone of it, sums to extend to all KBH's, using BF. Does if ?
