

Knot at Lunch for February 2: FT at fixed linking

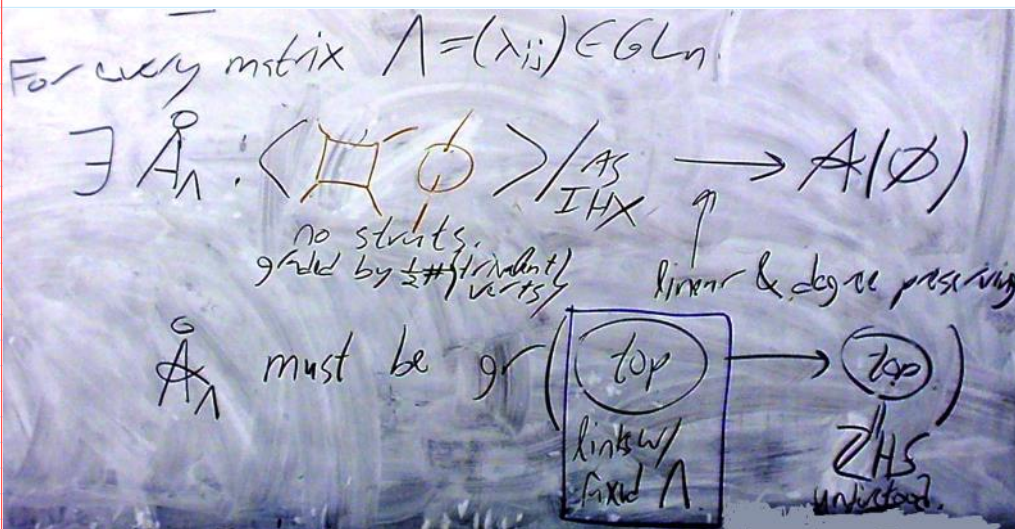
January-15-15 1:34 PM

- Travel money.
- Visitors: Dylan? Gwanael? Martins?

(141127a) Q. Are intersection graphs mod 4T the gr of something?

Ambition: Do something about Aarhus 1995 in time for Aarhus 2015.

What's missing in Aarhus 95?

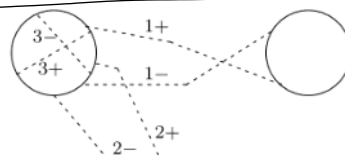


We need a f.t. theory on the set K_Λ of links w/ linking matrix Λ (or a similar set, within perhaps a 3-manifold background), such that:

1. $\exists Z: K_\Lambda \rightarrow gr K_\Lambda =: \hat{A}_\Lambda$
2. $\hat{A}_\Lambda \cong \hat{A}^{cic}$ (chordless chord diagrams) or at least, some comparison map exists between \hat{A}_Λ and \hat{A}^{cic} & $\exists \hat{A}_\Lambda: \hat{A}_\Lambda \rightarrow \hat{A}(\emptyset)$.
3. \hat{A}_Λ should be gr of a topological map.

From Appleboim's paper:

<http://front.math.ucdavis.edu/math.GT/9906138>



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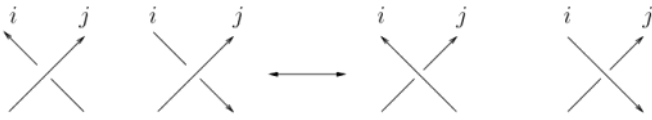


Figure 1. A DD-crossing change



Figure 2. A Λ -crossing change

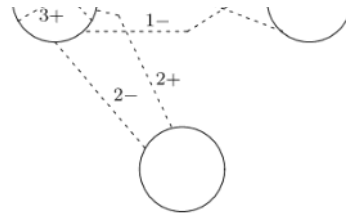


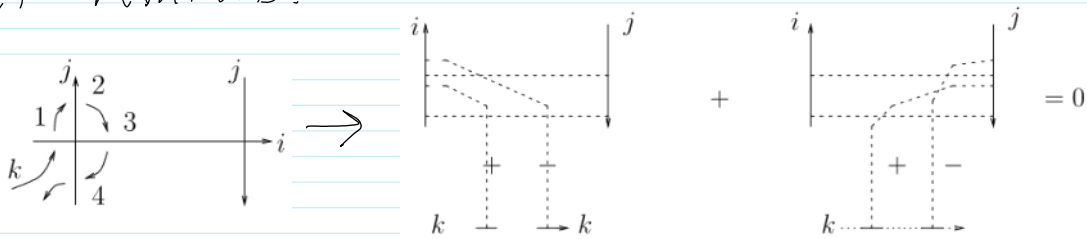
Figure 3. A double dating diagram



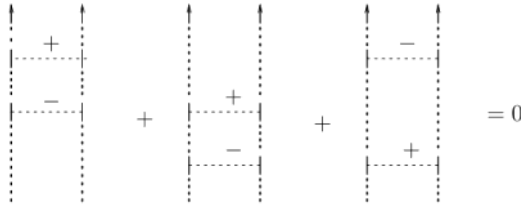
Figure 8. A Λ -diagram

Always keep in mind: There are maps $\mathcal{K}^{\Lambda, DD} \rightarrow \mathcal{K}$ & $\mathcal{A}^{\Lambda, DD} \rightarrow \mathcal{A}$

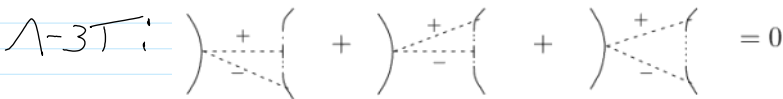
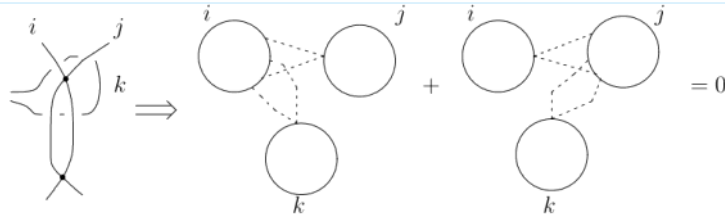
2T-relations:



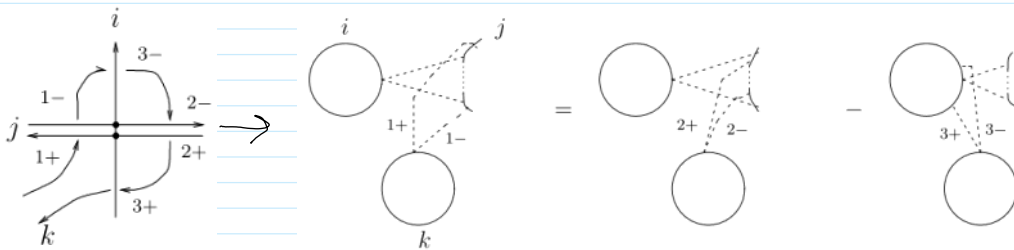
3T relations:

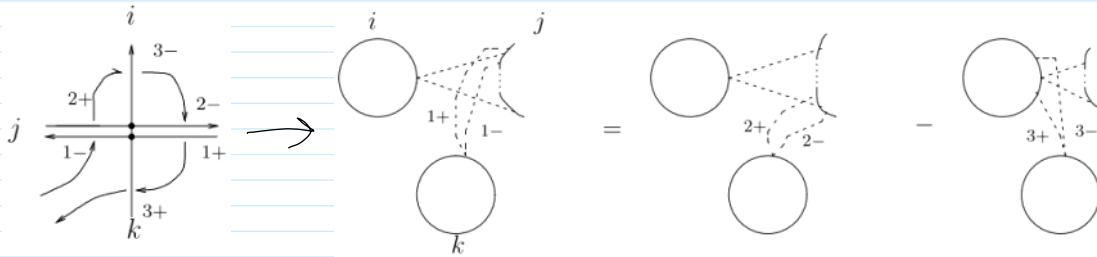


Λ -2T:

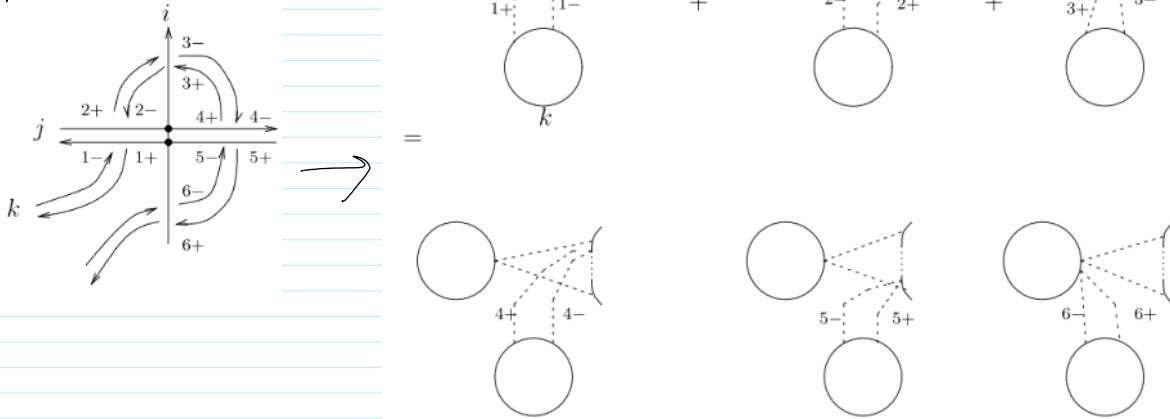


Interchange relations:





Wood Pecker Relation:



Thm The obvious $A^1 \rightarrow A^{00}$ is an isomorphism.

Verify!

Thm The image of A^1 in A^c is $A^{\text{chordless}} =: A^{c \setminus c}$ via α

Q1

1. is α an isomorphism?

2. Is there a UFTI

$$\sum_1: A^1 \rightarrow A^1 \quad \sum_0$$

3. What's the Goussarov counterpart of all this?