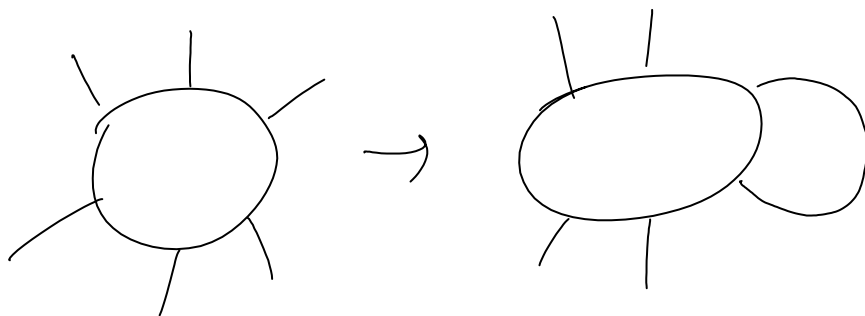


In the Archibald quotient  $A^{WA}$ , is there a Drinfel'd-style characterization of the image of  $A^u$ ?

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" $\Phi$ -modules"



Is there a global version of  $A^{WA}$ ?

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How do "strange mirrors" act on  $A^{WA}$ ?

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Scheme:  $(\Phi, R, F) \leftrightarrow$  (homomorphic expansions for KTG's with "red" & "green" vertices.)

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Check the  $ax+b$  weight system!

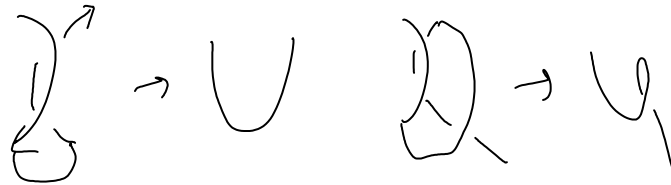
Figure out "two statements on Markov languages"; about subprocesses, and about quotient processes.

According to Manturov's & Chrisman's arXiv:1002.0539, the operation of "deleting all odd vertices" (given a parity in the sense of 2009-05/[Conversation with Manturov](#)) is well-defined on  $v$ -knots. This is amazing! What does it mean? Does this have an infinitesimal version?

A related(?) question: Is there a canonical map  $\sigma: \pi_1(\Sigma) \rightarrow \mathbb{Z}/2$ , defined for all surfaces  $\Sigma$ ?

Does it make sense to do this "canonical definition" twice?

It should try that on all v-knots in Green's table!



Is there anything interesting to say about finite type invariants for v-knots in the Kauffman class of a given flat knot?

Books on PDE: [From Almut]

1. Craig Evans of Berkeley in AMS series, "PDE".
  2. Walter Strauss. ← simple minded.
  3. Fritz John, "PDE"?, Springer.
- ↑  
Almut uses this one.

Does anybody know which polynomials are possible as values of the MVA?