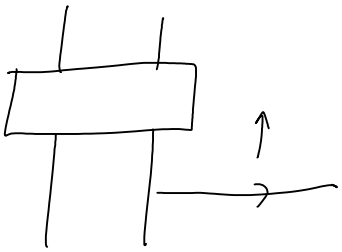
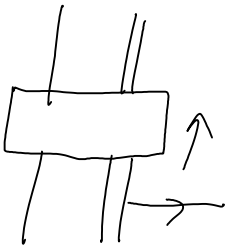
The w-Spiel for the ax+b Algebra

March-08-11
11:07 AM

Is it within reach? Perhaps the biggest obstruction is the relation back to the u-world.



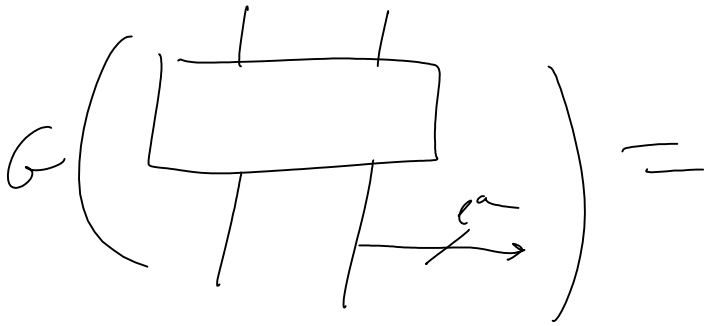
known. Is



known too?

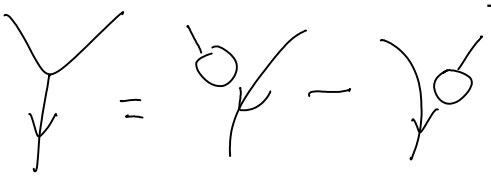
If I know the glow of an object, how hard is it to determine its scattering properties?

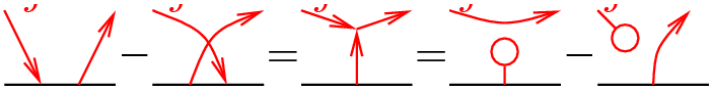
Given $Z^{-1}EZ$, find $Z^{-1}aZ$.



Precisely, I need a quotient of $\mathcal{A}^u \to \mathcal{A}^w$ for which there still is an Artin's theorem.

The ax+b quotient:





From Talks/Chicago-1009/axb

$[a_{ik}, a_{jk}] = h_i a_{jk} - h_j a_{ik}$ $[a_{ij}, a_{jk}] = \dots$

Switch to Δ-scattering?

$$D \in \mathcal{A}^{ax+b}(\mathbb{1}_n) \longrightarrow S(D) \in M_{\underbrace{(n+1)\times(n+1)}_{\text{rough}}}(\mathbb{Q}[h_0, \dots, h_n])$$