


The Cob Filtration

September-22-10
6:13 PM

Cob here stands for co-bracket. We mod out by diagrams that have more than 9 1-in-2-out ($\rightarrow \swarrow \searrow$) vertices; Call the result \mathcal{A}

Question Is \mathcal{A} generated by acyclic diagrams?


$\mathcal{A} = \mathcal{A}^v$ is \emptyset

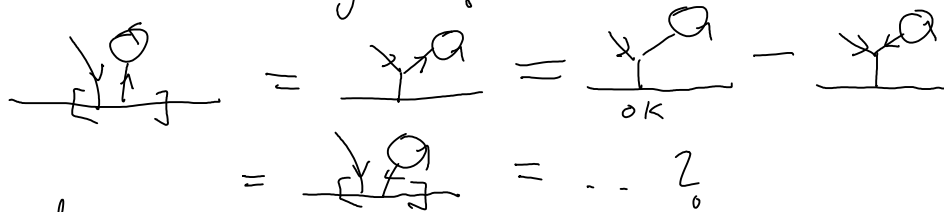
\mathcal{A} : 

\mathcal{A} 

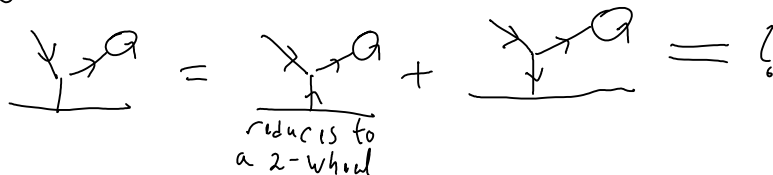
 $\text{OK } \emptyset$ so at first, big wheels reduce

Question Does  reduce in \mathcal{A} ? No.

But the two-wheel already reduces. Is  central modulo acyclics?



Alternatively:



reduces to a 2-wheel