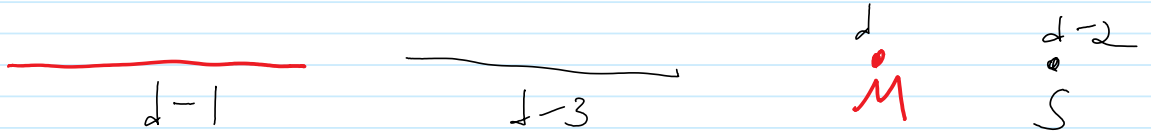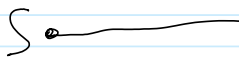# The combinatorics of BF configuration-space diagrams
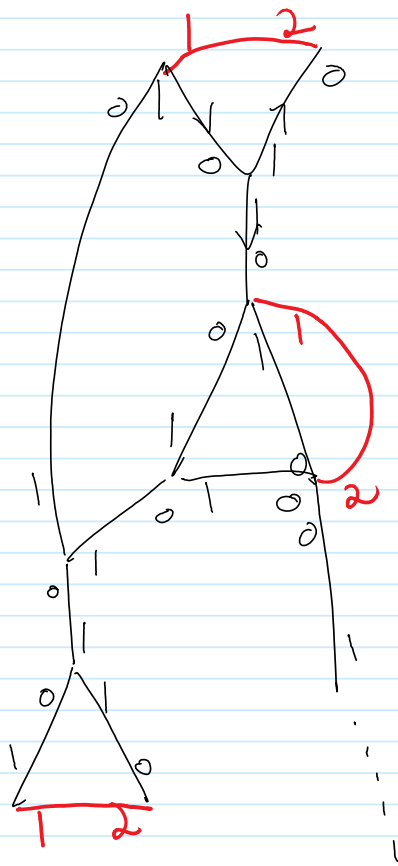
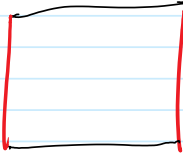Problem: what are all balanced red-black SkM graphs

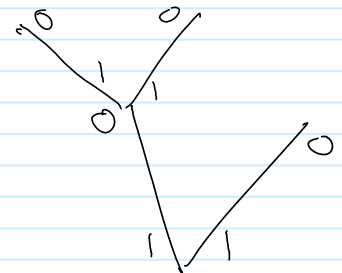$$d-1 \qquad d-3 \qquad \overset{d}{\underset{}{M}} \qquad \overset{d-2}{\underset{}{S}}$$

$\Rightarrow$ No. M ●━━━ univalents.

No S ●━━━ univalents

stably — balanced

$\Rightarrow$ 1 - loop.

where is the directionality in the Poisson-quantization integrals coming from?

Goal: show that a diagram that has a totally black vertex vanishes.