Twisted knot invariants

– relation: CS and CFT

$B3$

Knot

$\longrightarrow$

– ex:

R_1 R_2

R_1 $\overline{R_1}$ R_2 $\overline{R_2}$

O

O

- conf. block basis of $SU(2)_k$ WZNW

$$t \in (R_1 \otimes R_2) \cap (\bar{R}_3 \otimes \bar{R}_4)$$

$$= \sum_{s \in R_1 \otimes R_2} a_{ts} \begin{bmatrix} R_1 & R_2 \\ R_2 & R_4 \end{bmatrix}$$
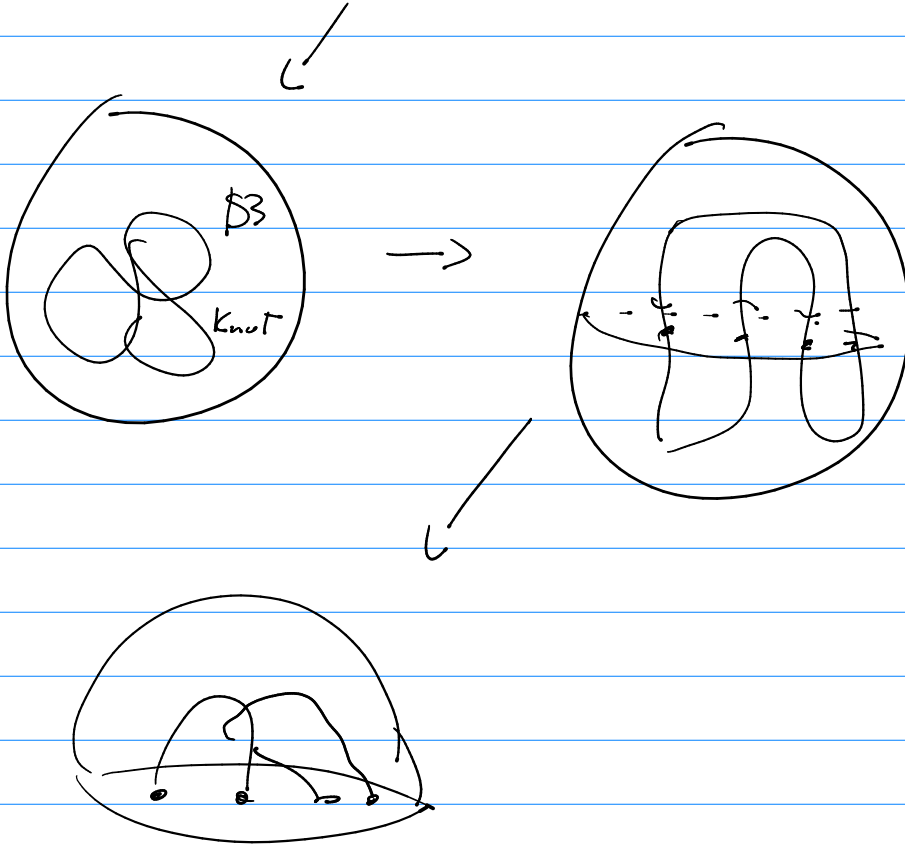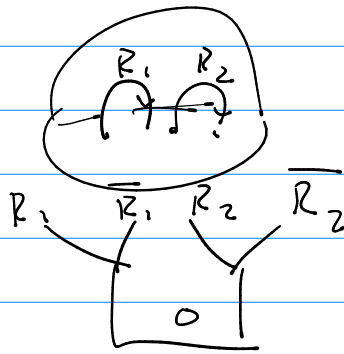
$$\underbrace{}_{\substack{\text{Racah} \\ \text{coeffs}}}$$

- t- and s- channel.

- e.g. $U_q(SU(2))$