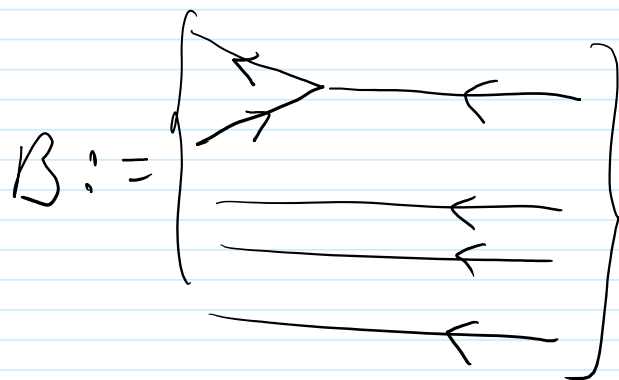


# Rep theoretic div

May 23, 2016 6:30 PM

$$\begin{array}{ccc}
 \text{sdur}_K & \xrightarrow{\text{div}} & \text{tr}_K \\
 \parallel & & \parallel \\
 \text{Tr}_{\text{cos}K} & \xrightarrow{\text{div}} & \text{whcds}_K \\
 \parallel & & \parallel \\
 R_T \otimes_{S_n} V_K^{\otimes n} & \longrightarrow & R_W \otimes_{S_{n-1}} V_K^{\otimes n-1}
 \end{array}$$

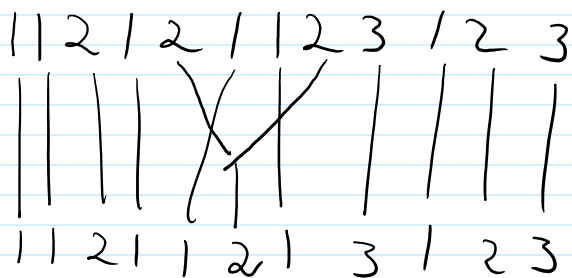


an  $S_n - S_{n-1}$  bimodule

E.g.:  $\underline{\quad}$  is a 12d  $S_3 - S_2$  bimodule.

$$\begin{array}{c}
 R_T \otimes_{S_n} V_K^{\otimes n} \\
 \downarrow f \\
 R_T \otimes_{S_n} B \otimes_{S_{n-1}} V_K^{\otimes n-1} = R_W \otimes V_K^{\otimes n-1}
 \end{array}$$

I need a map  $V_K^{\otimes n} \xrightarrow{f} B \otimes_{S_{n-1}} V_K^{\otimes (n-1)}$



I have that map!

IF  $R_T$  is the regular rep, get } the regular rep might not be a complete model!

