Dror Bar-Natan: AP: Projects: HigherRank: **The Cast**

The Variables:

$$\begin{pmatrix}
b_1 \setminus a_1 & x_{12} & x_{13} \\
y_{12} & b_2 \setminus a_2 & x_{23} \\
y_{13} & y_{23} & b_3 \setminus a_3
\end{pmatrix}, \quad \xi_-, \alpha_-, \beta_-, \eta_-.$$

$$x_1 \to 1$$
We short " x_1 " for either of x_{12}, x_{23} and " x_2 " for x_{13} . $x_1 \to 1$
In $m[ij \to k]$:

At $\epsilon = 0$:

At ϵ / ϵ^2 :

$$x_1 \to 1$$

$$x_2 \to 1$$

$$x_3 \to 1$$

$$x_4 \to 1$$