

Templated Search

- Make band presentation search practical.
- Uses braid quotients to *enumerate* fewer band presentations.

Template Definition

- $\phi: B_n \rightarrow H$ is a homomorphism.
- Define $\beta_\phi = \{ \phi(\alpha \delta^\pm \alpha^{-1}) : \alpha \in B_n, \delta \in \{ \sigma_1 \dots \sigma_{n-1} \} \}$
- A k -template for a braid x is a tuple $(b_1, b_2, \dots, b_k) \in \beta_\phi^k$ such that $b_1 b_2 \dots b_k = \phi(x)$