## A \$100 Problem on the Gassner Representation

http://drorbn.net/AcademicPensieve/2014-06/ modified 24/6/14, 8:33am

Let  $uB_n := \langle \sigma_i : 1 \le i < n \rangle / (\sigma_i \sigma_j = \sigma_j \sigma_i \text{ when } |i - j| > \text{ Let } R = R_n = \mathbb{Z}[T_i, T_i^{-1} : 1 \le i \le n] \text{ be the ring of Laurent } 1 \text{ and } \sigma_i \sigma_{i+1} \sigma_i = \sigma_i \sigma_{i+1} \sigma_i \text{ when } i < n) \text{ be the usual braid } \text{ polynomials in } n \text{ variables } T_1, \ldots, T_n.$  group on n strands.