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6. Topology

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The Burau matrix and Fiedler's invariant for closed braids

I will show how Fiedler's 'small state-sum' invariant for a closed braid $\hat{\beta}$ can be found in terms of the Burau representation of β, and hence from the 2-variable Alexander polynomial of the link $\hat{\beta} \cup A$ consisting of the closed braid $\hat{\beta}$ and its axis A.