

## **Splittings of two-generator one-relator groups**

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*The talk is based on the joint work with Stephan Tillmann*

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We will use Fox derivatives to associate to a two-generator one-relator presentation a polytope with marked vertices. We will show that in most, possibly all, cases this polytope determines the Bieri-Neumann-Strebel invariant and the minimal complexity of HNN-decompositions of the group.