1046-57-1240 **Hans U. Boden*** (boden@mcmaster.ca), Department of Mathematics and Statistics, McMaster University, 1280 Main St. W., Hamilton, Ontario L9H 4C3, Canada, and **Stefan Friedl**.

Metabelian SL(n,C) representations of knot groups.

In this talk, which is a report on joint work with Stefan Friedl, I will explain why, for n prime (or more generally n a prime power), every irreducible metabelian SL(n,C) representation of a knot group factors through a finite group. It is a consequence that every such representation is conjugate to an SU(n) representation and that there are only finitely many (up to conjugation). I will present a simple formula for this number in terms of the Alexander polynomial of the knot. These results are the natural n ≥ 2 generalization of results of Nagasato on metabelian SL(2,C) representations of knot groups. (Received September 15, 2008)