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**Sofia Lambropoulou\*** ([sofia@math.ntua.gr](mailto:sofia@math.ntua.gr)), Department of Applied Mathematics, National Technical University of Athens, Zografou Campus, 157 80 Athens, Greece, and **Jesus Juyumaya**. *p-adic framed braids*. Preliminary report.

In this talk we first explain the construction of the p-adic framed braids. Classical framed braids and links are used for constructing 3-manifolds via surgery. We then introduce the Yokonuma-Hecke algebras, quotients of the framed braid group, and their extension to the p-adic domain. We also discuss Markov traces defined on these algebras. (Received February 21, 2006)