## 1077-57-1627 Benjamin Cooper

Benjamin Cooper (bjc4n@virginia.edu) and Slava Krushkal\* (krushkal@virginia.edu). Categorification of the Jones-Wenzl projectors and applications.

Categorification of the Jones-Wenzl projectors will be introduced, leading to a novel categorification of the colored Jones polynomial and of spin networks. An application to the problems of evaluating a categorification at a root of unity and of handle-slide invariance will be discussed. (Received September 20, 2011)