Meeting: 1000, Albuquerque, New Mexico, SS 5A, Special Session on Categories and Operads in Topology, Geometry, Physics and Other Applications

1000-05-214 **Fernando J. O. Souza*** (fernando-souza@uiowa.edu), Department of Mathematics, 14 MLH, University of Iowa, Iowa City, IA 52242-1419. *On Correlation Schemes.* Preliminary report.

Correlation schemes are combinatorial structures that capture a structural feature common to various kinds of correlations. They were inspired by a similarity between links and entangled quantum states found by P. K. Aravind (1997), and defined by Wim van Dam (c. 2001).

In this talk, we will explore the operadic and combinatorial features of correlation schemes and, as time allows, some aspects of the correlation schemes associated to links. (Received August 24, 2004)