

**Meeting:** 1001, Evanston, Illinois, SS 24A, Special Session on Hopf Algebras at the Crossroads of Algebra, Category Theory, and Topology

1001-17-285            **Gizem Karaali\*** ([gizem@math.ucsb.edu](mailto:gizem@math.ucsb.edu)), Department of Mathematics, University of California, Santa Barbara, Santa Barbara, CA 93106. *A New Lie Bialgebra Structure on  $sl(2, 1)$ .*

We describe the Lie bialgebra structure on the Lie superalgebra  $sl(2, 1)$  related to an r-matrix that cannot be obtained by a Belavin-Drinfeld type construction. This structure makes  $sl(2, 1)$  into the Drinfeld double of a four-dimensional subalgebra. The talk will include motivation from the theory of Hopf algebras and quantum groups. (Received August 29, 2004)