

1088-00-226

**Bren B Cavallo\*** (bcavallo@gc.cuny.edu), PhD Program in Mathematics, CUNY Graduate Center, 365 Fifth Ave, New York, NY 10016. *Secret Sharing Using Non-Commutative Groups*. Preliminary report.

Secret sharing has a wide variety of important applications in cryptography. Recently Habeeb-Kahrobaei-Shpilrain introduced a method of secret sharing using non-commutative groups. In this talk I will show a variation on their method using the Shortlex Ordering on free groups and possibly indicate some new directions in the field. (Received February 11, 2013)