1096-01-2683 **Maryam Vulis*** (maryam@vulis.net), 67-67 Burns St, Forest Hills, NY 11375. *History of the Ideas that Led to Math-Based Currencies.*

Math-based currencies (Bitcoin and less famous alt-coins) appear prominently in the news. The elegant mathematical machinery of Bitcoin provides insightful examples for teaching cryptography and is more fully appreciated when examined in its historical context This presentation explores the origins of the mathematical ideas that culminated in practically usable math-based currencies. We trace the development of cryptographic protocols from the 1933 Bohr-Heisenberg mental poker game to the 1979 "other" RSA paper to the 1995 David Shaum's e-Cash and other milestones.

Truly, Bitcoins stand on the shoulders of giants. (Received September 17, 2013)