1077-94-1322   **Vladimir Shpilrain*** (`shpil@groups.sci.ccny.cuny.edu`), Department of Mathematics, The City College of New York, New York, NY 10031. *Security assumptions in non-commutative cryptography.* Preliminary report.

We review and compare security assumptions in non-commutative cryptography that have been in circulation over the last decade or so, and discuss several new security assumptions that can be useful. (Received September 19, 2011)