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**Delaram Kahrobaei\*** ([dkahrobaei@gc.cuny.edu](mailto:dkahrobaei@gc.cuny.edu)), PhD Program in Computer Science, CUNY Graduate Center, 365 Fifth Avenue, New York, NY 10016. *A decade of using non-commutative groups in cryptography.*

In this talk I will give a quick survey of development of new cryptosystems using non-commutative groups, their weaknesses, strengths as well as new directions. I will also describe a couple of my new results. (Received August 23, 2011)