The Mathematics of Cryptography

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Abstract: As the world becomes more connected the demand for information and electronic services is growing, and with the increased demand comes increased dependency on electronic systems. Already the exchange of sensitive information, such as credit card numbers, over the Internet is common practice. Protecting data and electronic systems is crucial to our way of living. In this talk I will first give a few general aspects of Cryptography such as examples of ciphers both symmetric as well as public key. Next, I will present a few research directions including a new encryption algorithm, and patterns on certain sequences.