

20/2020

# ONLINE INSPERM'S WEEKLY SEMINAR

DATE : 10 JULY 2020 | TIME : 3.15PM  
MEDIUM : VIDEO CONFERENCE (GOOGLE MEET)

 <https://meet.google.com/rnn-dgop-yso>



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Topic : A Quartic El-Gamal Cryptosystem Based on  
Lucas Sequence

## ABSTRACT

Public key cryptosystem (PCK) or asymmetric cryptosystem is a technique employing public key and private key to secure the secret information. El-Gamal cryptosystem is a PCK based on the Diffie-Hellman key exchange method, allow the users exchange their own private key over an unsecured channel. In this talk, a cryptosystem analogous to El-Gamal cryptosystem will be presented. The cryptosystem uses fourth and sixth order Lucas sequence which is related to quartic polynomial to encrypt the plaintext or decrypt the ciphertext.