

**CCSU**  
**DEPARTMENT OF MATHEMATICAL SCIENCES**

# COLLOQUIUM

**Friday, November 11**  
**2:00 – 3:00 PM**  
**Maria Sanford, Room 101**

**ON THE GRAPH OF  $x \rightarrow x^{-1} \pmod{n}$**

**MIZAN KHAN**

**EASTERN CONNECTICUT STATE UNIVERSITY**

(Joint work with Kevin Ford, Igor Shparlinski, and Christian Yankov)

## **Abstract**

We will discuss aspects of the graph of  $x \rightarrow x^{-1} \pmod{n}$  with particular reference to the convex closure of the graph. The talk should be accessible to juniors and seniors in mathematics who have some familiarity with modular arithmetic.

### ***For further information:***

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### **AFTERMATH:**

Refreshments will follow the colloquium at Castaneda's  
(1590 Stanley St. – across from the administration building)