



DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

## Colloquium

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MONSTROUS MOONSHINE AND VERTEX OPERATOR  
ALGEBRAS

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**ABSTRACT:**

This introductory talk will survey the recent development of the monstrous moonshine. Conjectured by McKay-Thompson-Conway-Norton and proved by Borcherds, the monstrous moonshine reveals a deep connection between the largest sporadic finite simple group Monster and genus zero functions. From the point of view of vertex operator algebra, moonshine is a connection among finite groups, vertex operator algebras and modular forms. This talk will explain how the moonshine phenomenon can be understood in terms of orbifold theory.

4 – 5pm, Wednesday, January 25, 2023

Zoom link:

<https://rutgers.zoom.us/j/8514489792?pwd=UVE5Q0tXbTJTZ0xzWks3K3dHbk5rUT09>