

# 2025

# H.N. Gupta Memorial Lecture

## Rahim Moosa

University of Waterloo

**Monday, April 28**

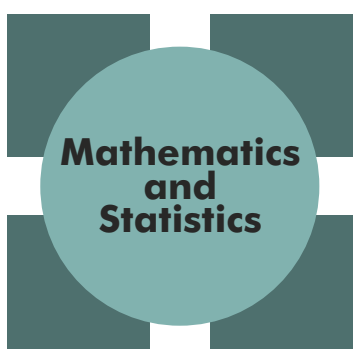
**2:00-3:00 pm**

**Research and  
Innovation Centre 208**



## When Any Three Solutions are Independent

Mathematical logic is largely concerned with the foundations of mathematics. However, it is often the case that techniques from mathematical logic can be used to \*do\* mathematics; can contribute to particular (non-foundational) mathematical problems. One branch of logic, model theory, has had a particularly rich record of such applications. As an illustration of this phenomenon, I will describe an application of model theory to algebraic differential equations carried out by Jim Freitag, Remi Jaoui, and myself, a few years back. I hope to explain how and why model theory played a role in the solution.



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