LUMS
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Seminar Title

“Algebraic Geometry Tools in Systems Biology"

Speaker: Prof. Alicia Dickenstein (University of Buenos Aires)



Date/Time: Monday October 25, 2021

4:00 PM - 5:00 PM

Abstract

I will motivate and introduce some methods and concepts of algebraic geometry that are being used in recent years to analyze standard models in molecular biology. The algebraic theory of chemical reaction systems aims to understand their dynamic behavior by taking advantage of the algebraic structure inherent in the kinetic equations, and does not need the a priori determination of the parameters, which can be theoretically or practically impossible. I will also point out some of *the* mathematical challenges that arise from this application.