Michigan Math Club

WEAR A MASK

Thursday at 4pm in EH1360
Pizza and pop outside afterwards!

Contact Geometry and Differential Equations

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In this talk, we begin with an introduction to three-dimensional contact geometry. After highlighting the basic concepts of this non-Euclidean geometry, we will demonstrate by example how contact geometry serves as a natural setting for the solution of first-order ordinary differential equations. We conclude by indicating the role that higher dimensional contact geometry plays in solving first-order partial differential equations.