

# SEMINAR NOTICE

*Department of Physics and Engineering Physics  
University of Saskatchewan*

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**SPEAKER:** Dr. Steven Rayan  
Department of Mathematics & Statistics and  
Centre for Quantum Topology and  
Its Applications (quanTA)  
University of Saskatchewan

**TOPIC:** *New Models of Quantum Matter Inspired by Geometry*

**DATE:** Tuesday February 15th, 2022

**TIME:** 3:30-4:30 p.m.

**PLACE:** *Physics 103*

## **ABSTRACT:**

The exciting and rapidly-growing field of topological materials has brought with it unexpected new connections between physics and mathematics. As the name suggests, topology has played a significant role in understanding and classifying these materials. In this talk, I will offer a brief look at another emerging chapter in this story in which exotic geometries — of the kind found in the woodcuts of M.C. Escher! — anticipate new models of two-dimensional quantum matter associated with hyperbolic lattices.