

# JOINT TUFTS/MIT COSMOLOGY SEMINAR

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## *Schwinger pair production and non-abelian electric fields*

Tanmay Vachaspati  
ASU

An electric field in pure Maxwell theory is stable. However, if there are charged particles in the theory, the electric field decays due to Schwinger pair production. In pure non-Abelian gauge theories, the gauge particles are themselves charged, leading to the question whether a non-Abelian electric field, such as in a confining string, can be stable. I will discuss electric fields due to certain non-Abelian gauge configurations that are protected from Schwinger pair production and may be candidates for confining strings.

Tuesday, November 8, 2022, 2:30 pm

574 Boston Ave, Room 310

Tufts University

Refreshments at 2:00 outside the building, at the corner of  
Harvard St. and Boston Ave.