

Seminars and Colloquia

Bell Inequalities and Violation

Seminar: [Seymour Sherman Memorial Lecture Series](#)

Speaker: Marius Junge
University of Illinois

Date: From 4:00 PM to 5:00 PM on 15 April 2016

Location: SE 140

Submitted By: Michael A. Mandell (mmandell@indiana.edu)

Description

Thanks to a famous paper by Einstein, Podolsky and Rosen, we know that quantum mechanics can violate the combination of axioms for reality and locality, and hence there can be 'spooky action at a distance'. In this talk we will discuss different mathematical experiments by two and more parties where quantum mechanics provides statistics which violate equation holding for any classical hidden variable theory. In competition with a group around H. Buhrmann, we have developed large violation for classical games and this talk will indicate some of these results and the corresponding background.

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