

GRADUATE STUDENT SEMINAR

Guest Speaker: Jenia Rousseva

University of Michigan

Date: Monday, December 7, 2020

Time: 4:00 PM

Location: Zoom

Zoom URL: notredame.zoom.us/j/95815357423

Lecture Title:

Reduction and coherent states

Abstract

We apply a quantum version of dimensional reduction to Gaussian coherent states in Bargmann space to obtain squeezed states on complex projective spaces. This leads to a definition of a family of squeezed spin states with excellent semi-classical properties governed by a symbol calculus. We present semiclassical norm estimates and a propagation result. (Previous knowledge of quantum mechanics is not required.)