

German Sierra (Tuesday, Nov 8)

Title:  $H = xp$ , the Landau model and the Dirac equation

Abstract:

The  $xp$  model of Berry, Keating and Connes admits two different regularizations. The one by Berry and Keating yields a discrete semiclassical spectrum given by the smooth Riemann zeros. The one by Connes yields a continuum semiclassical spectrum where the smooth Riemann zeros are missing. We shall present two quantum mechanical Hamiltonians that provide a physical realization of these models.