Andrzej Sitarz (Jagiellonian University, Krakow)

Noncommutative Moyal Sphere

Abstract

The Moyal plane is usually considered as a deformation of the flat plane, however, the algebra could equally well describe a compact noncommutative manifold. I shall demonstrate that there exists a family of metrics on the Moyal "plane" which have a constant scalar curvature thus yielding yet another quantum sphere.