Applied and Computational Mathematics Seminar

Title: Maximal extension of the noncommutative geometry inspired Schwarzschild metric.

Speaker: Davide Batic (Uniandes, Bogota)

Date: Thu 28th May 2009 at 2:00PM

Location: CASL Seminar Room - Belfield Office Park

Abstract: We derive a transformation of the noncommutative geometry inspired Schwarzschild solution into new coordinates such that the apparent singularities of the metric are removed. Moreover, we give the maximal singularity-free extension for the metric under consideration which turns out to describe an infinite lattice of asymptotically flat universes connected by black hole tunnels. This is a joint work with Ivan Arraut (Uniandes), Piero Nicolini (University of Trieste) and Marek Nowakowski (Uniandes).