Boğaziçi
MATH COLLOQUIUM

Spherically symmetric solutions in higher derivative gravity

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Abstract: Quantum corrections to gravity, either to general relativity, or to its field theory extensions such as supergravity, or to string theory, all produce quadratic curvature terms in the effective action. The seminar will present what is now known about the effect such terms have on the most basic family of gravitational solutions, i.e. spherically symmetric solutions. This reveals a rich set of new solution types, including non-Schwarzschild black holes, wormholes and solutions without horizons.

Date : Wednesday, June 10, 2015
Time: 2pm
Place: TB 250, Boğaziçi University