

Speaker: S. Deger

Title: Supersymmetric Solutions of D=3, N=4 Supergravity

Abstract:

In this talk, we will explain the construction of supersymmetric solutions of a particular D=3, N=4 supergravity using the Killing spinor bilinears method. They are classified with respect to the norm of the Killing vector constructed from Killing spinors as null and timelike. The gauged version of this theory comes from a consistent 3-sphere reduction and as such its solutions can be uplifted to 6-dimensions. As an example, we will show that the null warped AdS₃ solution gives rise to a rotating AdS₃ × S³ background. We will conclude with a brief overview of our work on 3-dimensional supergravities in recent years.