

Boğaziçi  
**MATH GRAD SEMINAR**

# **Supersymmetric Solutions of Supergravity Theories**

**Ceren Ayşe Deral**  
**Boğaziçi University**

**Abstract:**

It is going to be a nontechnical talk about supergravities and how to find their supersymmetric solutions. I will briefly introduce Riemannian geometry, general relativity, and supersymmetry. I will also mention how physicists construct a theory in Lagrangian formalization. Spinor representations play an essential role in supersymmetric theories; they will also be a part of this talk. Finally, I will discuss my work with my supervisor and Kaluza-Klein reductions. Covering many topics, I will only be able to give the ideas behind these theories for beginners, hopefully motivating them to work in this field.

**Date :** Tuesday, April 22, 2025

**Time:** 14:00

**Place:** TB130, South Campus, Boğaziçi University