



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI MATEMATICA

**Martedì 9 aprile 2019**  
ore 14:00

Scuola Normale Superiore  
Pisa  
Aula Tonelli

**Agnieszka Hejna**  
(Wrocław University)

Terrà un seminario dal titolo:

### **“Dunkl theory and Hörmander multiplier theorem in the rational Dunkl setting”**

**Abstract:**

Dunkl theory is a generalization of Fourier analysis and special function theory related to root systems and reflection groups. The Dunkl operators are deformations of the directional derivatives related to the reflection group. We shall discuss the objects related to the Dunkl Laplacian. In the one-dimensional and in the product case the heat kernel can be expressed explicitly in terms of classical special functions. In the general case considered in this talk, no such precise information is available. Furthermore, we will discuss an analogue of the classical Hörmander multiplier theorem in the rational Dunkl setting.

This talk is based on joint work with Jacek Dziubanski.

Tutti gli interessati sono invitati a partecipare.