

# SEMINARIO DI GEOMETRIA E ALGEBRA

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Mercoledì 12 Luglio 2023 - Ore 15:00 - Dip. di Matematica, aula III

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**Zeta functions for class two nilpotent groups**

**Abstract.** The notion of Zeta function for groups was introduced in a seminal paper from Grunewald, Segal and Smith and proved to be a powerful tool to study the subgroup growth in some classes of groups. In this seminar I will introduce this Zeta function presenting some general properties for this object. I will then focus on some results obtained for class two nilpotent groups. In particular, I will describe some combinatorial techniques used to tackle this problem, namely the study of series associated to polyhedral integer cones. This is a joint work with Christopher Voll and Marlies Vantomme.



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