

# SEMINÁRIO DE GEOMETRIA

**Dia 17 Maio (sexta-feira), às 13h30, sala 6.2.38**

## Locally Spherical Hypertopes

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### **Abstract:**

A hypertope is an incidence geometry that is thin and residually connected. In this talk we give examples of regular hypertopes that are locally spherical, arising from the finite and Euclidean Coxeter groups. Regular polyhedra, such as, the platonic solids, and are well known examples of (locally) spherical hypertopes. We have also examples in arbitrary dimension  $n$ , namely, the  $n$ -simplex and the  $n$ -cube. This is a joint work with Asia Weiss (York University, Toronto) and Dimitri Leemans (ULB, Brussels).

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