

**Tamás Hausel**

**Title: Ubiquity of systems of homogeneous polynomial equations with a unique solution**

**Abstract:** Following Macaulay we will analyse systems of equations as in the title leading to marvelous properties of its multiplicity algebra. Examples include isolated surface singularities, equivariant cohomology and fixed point sets of group actions as well as the Hitchin integrable system on very stable upward flows.