

## Irreducible components of Hilbert schemes and application to secant varieties

*vendredi 27 juin 2025 10:30 (20 minutes)*

We recall the connection of the Gorenstein loci in the Hilbert scheme of points on a projective variety  $X$  with the cactus varieties of  $X$  in some embedding. We give an analogous description of cactus varieties of pencils (which correspond to simultaneous rank). We conclude by showing some examples of cactus varieties of pencils which are equal to their corresponding secant varieties.

This is a complementary talk to Klemen Sivic's presentation, and is based on joint work with Hanieh Keneshlou and Klemen Sivic.

**Orateur:** Dr GALAZKA, Maciej (Daegu-Gyeongbuk Institute of Science and Technology)