

## **Tangent to the identity germs and resolution of vector fields**

by MATTEO RUGGIERO (Université Paris Cité)

The dynamical properties of a tangent to the identity germ are intimately related to the resolution of singularities of the associated infinitesimal generator.

In particular, Ramis-Sibuya normal forms of resolved infinitesimal generators admitting a separatrix allow to describe the parabolic manifolds asymptotic to such separatrix (by recent works by López-Hernanz, Raissy, Ribón, Sanz-Sánchez, Vivas).

I will present these phenomena via a class of examples in dimension 3, introduced in a joint work with Samuele Mongodi, where moreover all the separatrices lie inside the central manifold of the resolved infinitesimal generator.