

Department of Mathematics

Assistant Professor

Member of CMAF of the University of Lisbon, group of Hyperbolic systems and Singularities in PDE's.



João Cabral

PI

Assistant Professor, PhD subject was Singularities of Legendrian Varieties and remains doing research in this field.

Objectives

Study and classify singularities of Legendrian varieties. Representation of the local fundamental group of a plane curve.

Methodology

Detailed and careful study of examples and counter-examples.

Expected Results

Obtain the set of limits of tangents of any singular point of a surface and therefore the resolution algorithm of singularities of Legendrian surfaces. Construct a computational algorithm to obtain a representation of the local fundamental group of a plane curve.