



FMSP Lectures

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The topology of singular points of real analytic curves

February 21 (Wednesday) 15:00 ~ 16:30 Room 117

February 22 (Thursday) 15:00 ~ 16:30 Room 117

February 23 (Friday) 13:30 ~ 15:00 Room 002

Abstract:

In the neighborhood of a singular point, a germ of real analytic curve in the plane consists of a finite number of branches. Each of these branches intersects a small circle around the singular point in two points. Therefore, the local topology is described by a chord diagram : an even number of points on a circle paired two by two. Not all chord diagrams come from a singular point. The main purpose of this mini course is to give an complete description of those "analytic ? chord diagrams. On our way, we shall meet some interesting concepts from computer science, graph theory and operads.