

Abstract

Oberwolfach Workshop:

Singularities

Dates:

28 September - 3 October 2025 (Code: 2540)

Organizers:

Javier Fernandez de Bobadilla, Bilbao

François Loeser, Paris

András Némethi, Budapest

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Singularity theory has always developed in a continuous dialog with the main developments of algebra, geometry and topology, and recently is gaining a new impetus, arising from the interaction new major developments in geometry, that are bringing new methods, ideas and questions, and ultimately reshaping the theory (symplectic topology, low-dimensional topology and gauge theories, mirror symmetry, non-archimedean geometry, model theory, Minimal Model Program, new developments around the decomposition theorem, and even metric and Lipschitz geometry).

Since last Singularities conference in Oberwolfach there has been a combination of recent inner developments within the theory and exciting new ideas coming from the interaction with the fields mentioned above. The program of the 2025 conference will summarize the main new results of the field and will help the participants to understand the connections and ramifications with other fields, and to sketch out the possible endeavours and pursuits for the future.