Colloquium Guido Castelnuovo

Martedì 25 Giugno 2019
Ore 16:30 - 17:30

Looking at 2 spheres in R³ with a Morse theoretic perspective

The so called Willmore Lagrangian is a functional that shows up in many areas of sciences such as conformal geometry, general relativity, cell biology, optics…
We will try first to shed some lights on the universality of this Lagrangian. We shall then present the project of using the Willmore energy as a Morse function for studying the fascinating space of immersed 2-spheres in the euclidian 3 space and relate topological obstructions in this space to integer values and minimal surfaces.

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