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Gamma-convergence of the p -Dirichlet energy for manifold-valued maps

Wednesday, 5 November 2025 14:00 (1 hour)

In this talk, we will consider the p -Dirichlet energy of maps with values in a closed manifold. We will discuss a Gamma-convergence result in the limit as the exponent p approaches a certain critical value k , which is defined in terms of the topology of the target manifold. This particular limit is associated with the emergence of topological singularities of codimension k , which can be described in measure-theoretic terms using the language of flat chains with coefficients in normed Abelian groups. This presentation is meant to serve as an introduction to the topic; I will try to avoid technicalities as much as possible. The talk is based on joint work with Van Phu Cuong Le (Universität Heidelberg), Ramon Oliver-Bonafoux (Università di Verona), and Giandomenico Orlandi (Università di Verona).

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