

International GMT Seminar

Min-max construction of anisotropic minimal hypersurfaces

Time

Wednesday, 14 May 2025

8:00-10:00 p.m. (Taipei time)

Agenda

8:00 p.m. Get-together (30 min)

8:30 p.m. Presentation Antonio De Rosa (60 min)

9:30 p.m. Questions and discussions (30 min)

Venue

HyHyve, Online seminar

Registration and more information:



Antonio De Rosa
Bocconi University

We use the min-max construction to find closed optimally regular hypersurfaces with constant anisotropic mean curvature with respect to elliptic integrands in closed n -dimensional Riemannian manifolds. The critical step is to obtain a uniform upper bound for density ratios in the anisotropic min-max construction. This confirms a conjecture posed by Allard [Invent. Math., 1983]. The talk is based on joint work with G. De Philippis and Y. Li.