

National Center for Theoretical Sciences

International GMT Seminar

Generic Regularity of Minimal Submanifolds

Time	November 20, 2024 (Wednesday)
	08:30 p.m 10:30 p.m (Taipei time)
Agenda	08:30 p.m. Get-together (30 min)
	09:00 p.m. Presentation Zhihan Wang (60 min)
	10:00 p.m. Questions and discussions (30 min)
Venue	HyHyve, Online seminar 「読読

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Zhihan Wang **Cornell University**

The well-known Simons cone suggests that singularities may exist in a stable minimal hypersurface in Riemannian manifolds of dimension greater than 7, locally modeled on minimal hypercones. It was conjectured that generically they can be perturbed away. In this talk, we shall present a way to resolve these singularities by perturbing metric in an 8-manifold and hence obtain smoothness under a generic metric. We shall also talk about certain generalizations of this generic smoothness of minimal submanifold in other dimensions and codimensions as well as their applications.