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Isometric embedding and quasi-local type inequality

In this talk, we will first review the classic Weyl's embedding problem and its applications in quasi-local mass. We will discuss recent progress on Weyl's embedding problem in Riemannian manifold. By assuming isometric embedding into Schwarzschild manifold, we establish a quasi-local type inequality. Part of the work are joint with Pengfei Guan and Pengzi Miao.