

Charles Frances (Paris-Sud) Rigidity of conformal boundaries in pseudo-Riemannian geometry

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A convenient way to build a conformal boundary to a (noncompact) pseudo-Riemannian manifold, is to embed conformally as a strict open subset of a manifold of the same dimension, and then consider the topological boundary of the embedding. The aim of the talk is to discuss the possibility of such a strict embedding, and then to show that as soon as we deal with manifolds of dimension, the conformal boundary essentially does not depend on the embedding. We will also generalize this rigidity property of boundaries to other geometric structures.