

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 n , the conformal boundary essentially does not depend on the embedding. We will also generalize this rigidity property of boundaries to other geometric structures.

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