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In differential geometry, a pseudo-Riemannian manifold (also called a semi-Riemannian manifold) is a differentiable manifold with a metric tensor that is everywhere nondegenerate. This is a generalization of a Riemannian manifold in which the requirement of positive-definiteness is relaxed. Every tangent space of a pseudo-Riemannian manifold is a pseudo-Euclidean space described by a quadratic ...

Pseudo-Riemannian manifold - Wikipedia

Riemannian Geometry is an expanded edition of a highly acclaimed and successful textbook (originally published in Portuguese) for first-year graduate students in mathematics and physics. The author's treatment goes very directly to the basic language of Riemannian geometry and immediately presents some of its most fundamental theorems.

Riemannian Geometry: Manfredo Perdigao do Carmo, Francis

In mathematics, a manifold is a topological space that locally resembles Euclidean space near each point. More precisely, each point of an n -dimensional manifold has a neighbourhood that is homeomorphic to the Euclidean space of dimension n . In this more precise terminology, a manifold is referred to as an n -manifold. One-dimensional manifolds include lines and circles, but not figure eights ...

Manifold - Wikipedia

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Abstract: We present a monotonic expression for the Ricci flow, valid in all dimensions and without curvature assumptions. It is interpreted as an entropy for a certain canonical ensemble. Several geometric applications are given. In particular, (1) Ricci flow, considered on the space of Riemannian metrics modulo diffeomorphism and scaling, has no nontrivial periodic orbits (that is, other ...

[math/0211159] The entropy formula for the Ricci flow and

Site web officiel d'Alain Connes. Noncommutative geometry and reality 2.5 MB; Hecke algebras, type III factors and phase transitions with spontaneous symmetry breaking in number theory 26.8 MB

Alain Connes -- Documents

This paper studies the notion of W -measurable sensitivity in the context of semigroup actions. W -measurable sensitivity is a measurable generalization of sensitive dependence on initial conditions.

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