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Riemannian geometry - Wikipedia

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Interactions between the various directions of Riemannian Geometry, Global Analysis, Geometric Analysis, Mathematical Physics and Algebraic Geometry play an important role in the research of the Geometric Group. Interactions with other groups of the Mathematics Department, the Physics Department and KITP play an equally important role.

Geometry | Department of Mathematics - UC Santa Barbara

Global Riemannian Geometry : Curvature and Topology, Paperback by Hurtado, Ana; Markvorsen, Steen; Min-Oo, Maung; Palmer, Vicente, ISBN 3030552926, ISBN-13 9783030552923, Like New Used, Free shipping in the US This book contains a clear exposition of two contemporary topics in modern differential geometry: distance geometric analysis on manifolds, in particular, comparison theory for distance ...

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Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of differential geometry during the 18th century and the 19th century.

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