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Riemannian geometry is the branch of differential geometry that studies Riemannian manifolds, smooth manifolds with a Riemannian metric, i.e. with an inner product on the tangent space at each point that varies smoothly from point to point. This gives, in particular, local notions of angle, length of curves, surface area and volume. From those, some other global quantities can be derived by integrating local contributions. Riemannian geometry originated with the vision of Bernhard Riemann expres

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Riemannian geometry is characterized, and research is oriented towards and shaped by concepts (geodesics, connections, curvature,...) andobjectives,inparticularto understand certain classes of...

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Lectures on Riemannian Curvature Functionals, IAS/PCMI Program in Geometric Analysis, July, 2013. pdf: Critical Metrics for Riemannian Curvature Functionals, expanded version of lectures, to appear in IAS/PCMI Proceedings book.; Slides from original lectures: Lecture 1, Lecture 2, Lecture 3, Lecture 4. Lecture Notes

Jeff Vicolovsky: Lecture Notes

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It incorporates problems involving curves and surfaces, or domains with curved boundaries, but also the study of Riemannian manifolds in arbitrary dimension. The calculus of variations is sometimes regarded as part of geometric analysis, because differential equations arising from variational principles have a strong

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Riemannian Geometry and Geometric Analysis. The second edition featured a new chapter with a systematic development of variational problems from quantum field theory, in particular the Seiberg-Witten and Ginzburg-Landau functionals.

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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.

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