



The geometry of weakly-Einstein manifolds /

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Universidade de Santiago de Compostela. Servizo de Publicacións e Intercambio Científico,
2021-11-10

Monografía

The geometry of Einstein manifolds is a well studied topic in differential geometry. Einstein metrics appear in the analysis of critical metrics for some Riemannian functionals. They add strong conditions on the manifold, so it is a natural question trying to weaken this condition. This thesis is devoted to the study of the so called weakly-Einstein manifolds. These conditions are analyzed under some special assumptions in different frames such as locally conformally flat manifolds, hypersurfaces or homogeneous manifolds. Moreover, other conditions related with the weakly-Einstein ones are also studied which are the generalized Einstein one and the two-loop renormalization flow

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Título: The geometry of weakly-Einstein manifolds Rodrigo Mariño Villar

Edición: 1

Editorial: Santiago de Compostela Universidade de Santiago de Compostela. Servizo de Publicacións e Intercambio Científico 2021-11-10

Tipo Audiovisual: Mathematics Matemáticas

Mención de serie: Publicaciones del Departamento de Geometría y Topología

Materia: geometry of Einstein manifolds Mathematics Matemáticas

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