

SIX-DIMENSIONAL EINSTEIN SOLVMANIFOLDS

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In this article, we completely classify the six-dimensional Einstein solvmanifolds. In particular, we show that all such solvmanifolds are standard. We also classify the homogeneous Einstein 6-manifolds of nonpositive sectional curvature. Moreover, we obtain some structural results about several classes of Einstein solvmanifolds of greater dimension.

Key words and phrases: Riemannian manifold, solvmanifold, homogeneous space, Einstein metric.

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