INVARIANT EINSTEIN METRICS
ON THREE-LOCALLY-SYMMETRIC SPACES

A. M. Lomshakov, Yu. G. Nikonorov, and E. V. Firsov

We study the problem of existence and the number of invariant Einstein metrics on three-locally-symmetric spaces. We prove that if there are no isomorphic modules in the isotropy decomposition then the number of invariant Einstein metrics (up to isometry and homothety) varies from one to four. Basing on these results, we construct new examples of Einstein metrics.

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

Lomshakov Aleksandr Mikhajlovich
   Barnaul State Pedagogical University,
   656099 Barnaul, Russia.

Nikonorov Yurij Gennad'evich
Firsov Evgenij Valer'evich
   Rubtsovsk Industrial Institute,
   658207 Rubtsovsk, Russia.
   E-mail: nik-inst.rubtsovsk.ru