| Year: 2015 | Vol.: 86 | Fasc.: 3-4

Title: On conformally flat (α, β) -metrics with constant flag curvature

Author(s): Guangzu Chen, Qun He and Zhongmin Shen

In this paper, we study conformally flat (α, β) -metrics in the form $F = \alpha \phi(\beta/\alpha)$, where α is a Riemannian metric and β is a 1-form on a C^{∞} manifold M. We prove that conformally flat (α, β) -metrics with constant flag curvature on a manifold of dimension n > 2 must be either a locally Minkowski metric or a Riemannian metric.

Address:

Guangzu Chen Department of Mathematics Tongji University Shanghai 200092 P.R. China

Address:

Qun He
Department of Mathematics
Tongji University
Shanghai 200092
P.R. China

Address:

Zhongmin Shen Department of Mathematical Sciences Indiana University-Purdue University Indianapolis, IN 46202-3216 USA