Title: Two dimensional $(\alpha, \beta)$-metrics with reversible geodesics

Author(s): Ioana M. Masca, Sorin V. Sabau and Hideo Shimada

We study the necessary and sufficient conditions for a Finsler surface with $(\alpha, \beta)$-metrics to be with reversible geodesics. We show that such a Finsler structure is with reversible geodesics if and only if it is a Randers change of an absolute homogeneous Finsler metric by a closed one-form.

Address:
Ioana M. Masca
‘Nicolae Titulescu’ College Brasov
B-dul 13 Decembrie Nr. 125
Brasov
Romania

Address:
Sorin V. Sabau
Department of Mathematics
Tokai University
Sapporo City, Hokkaido
005-8601 Japan

Address:
Hideo Shimada
Department of Mathematics
Tokai University
Sapporo City, Hokkaido
005-8601 Japan