

Year: 2019

Vol.: 94

Fasc.: 3-4

Title: Funk functions and constructions of dually flat Finsler metrics

Author(s): Ying Li and Xiaohuan Mo

Dually flat Finsler metrics arise from α -flat information structures on Riemann–Finsler manifolds. Inspired by the theory of Funk functions and Hamel functions due to Li–Shen, we give a new approach to produce dually flat Finsler metrics in this paper. Moreover, we manufacture new dually flat spherically symmetric Finsler metrics by using the standard Euclidean norm on $\mathbb{R}^n$.

Address:

Ying Li
Key Laboratory of Pure
and Applied Mathematics
School of Mathematical Sciences
Peking University
Beijing 100871
China

Address:

Xiaohuan Mo
Key Laboratory of Pure
and Applied Mathematics
School of Mathematical Sciences
Peking University
Beijing 100871
China