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## **projectively flat finsler 2 spheres of constant curvature**

May 27 2024

use these ideas to study the geometry of finsler structures on the 2 sphere that have constant finsler gauss curvature  $k$  and whose geodesic path geometry is projectively flat i e locally equivalent to that of straight lines in the plane

## **projectively flat finsler metrics arxiv 1302 4120v1 math dg**

Apr 26 2024

singular finsler metrics such as kropina metrics and  $m$  kropina metrics have a lot of applications in the real world in this paper we study a class of two dimensional singular finsler metrics defined by a riemann metric  $\alpha$  and 1 form  $\beta$  and we characterize those which are douglasian or locally projectively flat by some equations it

## **1505 06936 on projectively flat finsler spaces arxiv org**

Mar 25 2024

abstract first we present a short overview of the long history of projectively flat finsler spaces we give a simple and quite elementary proof of the already known condition for the projective flatness and we give a criterion for the projective flatness of a special lagrange space theorem 1

## **on the classification of projectively flat finsler metrics**

Feb 24 2024

in this paper we study locally projectively flat finsler metrics with constant flag curvature  $k$  we prove those are totally determined by their behaviors at the origin by solving some nonlinear pdes the classifications when  $k \leq 1$  and  $k \geq 1$  are given respectively in an algebraic way

## ***projectively flat fourth root finsler metrics***

Jan 23 2024

finsler metric on an open domain in  $\mathbb{R}^n$  is said to be projectively flat if its geodesics are straight lines hilbert's fourth problem in the regular case is the study and characterization of projectively flat metrics on a convex open domain in  $\mathbb{R}^n$

## ***on cylindrical symmetric projectively flat finsler metrics***

Dec 22 2023

a finsler metric  $f(x, y)$  on an open subset  $U \subset \mathbb{R}^n$  is called projectively flat if all geodesics are straight lines in  $U$ . A finsler metric  $f$  on a manifold  $M$  is called locally projectively flat if at any point there is a locally coordinate system  $x^i$  where  $f$  is projectively flat.

## **some constructions of projectively flat finsler metrics**

Nov 21 2023

the main purpose of this paper is to construct some projectively flat finsler metrics in the form  $f = \alpha \varphi \beta \alpha$  where  $\alpha$  is a riemannian metric  $\beta$  is a 1 form and  $\varphi$  is a positive c function. e.g.  $\varphi = 1 + k s^2$  such metrics are called  $\alpha \beta$  metrics.  $x^2 + 2p y^2$

## **projectively flat finsler spaces with $\alpha \beta$ metric**

Oct 20 2023

abstract the  $\alpha \beta$  metric is a finsler metric which is constructed from a riemannian  
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metric  $\alpha$  and a differential 1 form  $\beta$  it has been sometimes treated in theoretical physics we consider the projective flatness of finsler spaces with  $\alpha$   $\beta$  metric

## ***projectively flat finsler metrics of constant flag curvature***

Sep 19 2023

finsler metrics on an open subset in  $\mathbb{R}^n$  with straight geodesics are said to be projective it is known that the flag curvature of any projective finsler metric is a scalar function of tangent vectors the flag curvature must be a constant if it is riemannian in this paper we discuss the classification problem on projective finsler metrics of

## ***pdf on some projectively flat finsler metrics researchgate***

Aug 18 2023

in this paper we find a sufficient condition for certain class of finsler metrics in the form  $f = \alpha \phi \beta$  to be locally projectively flat where  $\phi$  is a positive c function

## **on projectively flat finsler warped product metrics of**

Jul 17 2023

using the obtained equations we manufacture new locally projectively flat finsler warped product metrics of vanishing flag curvature these metrics contain the metric introduced by berwald and the spherically symmetric metric given by mo zhu

## **projectively flat finsler metrics of constant curvature**

Jun 16 2023

projectively flat finsler metrics of constant curvature zhongmin shen it is the hilbert s fourth problem to characterize the not necessarily reversible distance functions on a bounded convex domain in  $\mathbb{R}^n$  such that straight lines are shortest paths distance functions induced by a finsler metric are regarded as smooth ones

## ***on a class of projectively flat finsler metrics with constant***

May 15 2023

one of important problems in finsler geometry is to study and characterize finsler metrics of constant flag curvature another problem is to study and characterize

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projectively flat finsler metrics on an open domain in  $\mathbb{R}^n$  the later is the famous hilbert s fourth problem in the regular case

## **on a class of projectively flat finsler metrics researchgate**

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in this paper we study locally projectively flat finsler metrics with constant flag curvature  $k$  we prove those are totally determined by their behaviors at the origin by solving some

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Mar 13 2023

first we present a short overview of the long history of projectively flat finsler spaces we give a simple and quite elementary proof of the already known condition for the projective flatness and we give a criterion for the projective flatness of a special lagrange space theorem 1

## **on projectively flat finsler space with a cubic metric**

Feb 12 2023

projectively flat finsler space with cubic  $\alpha$   $\beta$  metric in present section we have obtained the condition for a finsler space  $f_n$  with a cubic  $\alpha$   $\beta$  metric defined in equation 2 to be projectively flat

## **on a class of locally projectively flat finsler metrics ii**

Jan 11 2023

such finsler metrics are called locally projectively flat finsler metrics in  $r_n$  this question has been solved in riemannian geometry by beltrami which says that a riemannian metric is locally projectively flat if and only if it is of constant sectional curvature

## **1302 3303 on a class of singular projectively flat finsler**

Dec 10 2022

singular finsler metrics such as kropina metrics and m kropina metrics have a lot of applications in the real world in this paper we classify a class of singular  $\alpha \beta$  metrics which are locally projectively flat with constant flag curvature in dimension  $n = 2$  and  $n = 3$  respectively

## **pdf geometry of locally projectively flat finsler space**

Nov 09 2022

in view of solution to the hilbert fourth problem the present study engages to investigate the projectively flat special  $\alpha \beta$  metric and the generalised first approximate matsumoto  $\alpha$

## **projectively flat finsler 2 spheres of constant curvature**

Oct 08 2022

i use these ideas to study the geometry of finsler structures on the 2 sphere that have constant finsler gauss curvature  $k$  and whose geodesic path geometry is projectively flat i e locally equivalent to that of straight lines in the plane

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