

# 学术报告

## On Finsler surfaces of constant flag curvature

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**Time:** 10:30-11:30, December 31(Tuesday), 2019

**Venue:** Room 108, Center for Applied Mathematics

**Abstract:** In this lecture, we discuss Finsler surfaces of constant (flag) curvature. First, we show that the space of those with two dimensional isometric group depends on two arbitrary constants. We also give a new technique to recover Finsler metrics from the specified two constants. Using this technique we obtain some new Finsler surfaces of constant flag curvature with two dimensional isometric group. Then we show that the space of Finsler metrics with constant flag curvature of which admits a Killing field depends on two arbitrary functions of one variable. Furthermore we find an approach to calculate these functions for spherically symmetric Finsler surfaces of constant flag curvature. In particular, we obtain the normal form of the Funk metric on the unit disk  $\mathbb{D}^2$ .

欢迎大家参加！