Title: On some special projectively flat (α, β)-metrics

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In this paper, we find equations that characterize locally projectively flat Finsler metrics in the form $F = \epsilon\beta + \alpha + \frac{3}{2}\beta \arctan(\beta/\alpha) + \frac{\alpha\beta^2}{2(\alpha^2+\beta^2)}$, where $\alpha = \sqrt{a_{ij}y^iy^j}$ is a Riemannian metric and $\beta = b_iy^i$ is a 1-form. Then we completely determine the local structure of those with constant flag curvature.

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