

Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

On Cartan Spaces with (α, β) -metric

H. G. NAGARAJA

Department Of Mathematics, Central College,
Bangalore University, Bangalore-560 001, Karnataka-INDIA
e-mail: hgnraj@yahoo.com

 [Keywords](#)
 [Authors](#)



math@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Abstract: É. Cartan [2] has originally introduced a Cartan space, which is considered as dual of Finsler space. H. Rund [10], F. Brickell [1] and others studied the relation between these two spaces. The theory of Hamilton spaces was introduced and studied by R. Miron ([8], [9]). He proved that Cartan space is a particular case of Hamilton space. T. Igrashi ([5], [6]) introduced the notion of the (α, β) -metric in Cartan spaces and obtained the metric tensor and the invariants ρ and r which characterize the special classes of Cartan spaces with (α, β) -metric. This paper presents a study of Cartan spaces with (α, β) -metric admitting h-metrical d-connection. We prove the conditions for these spaces to be locally Minkowski and conformally flat.

Key Words: Cartan space, (α, β) -metric, h-metrical d-connection, Conformally flat

Turk. J. Math., **31**, (2007), 363-369.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Math., vol.31, iss.4.](#)