

On Generalized U – Birecurrent Finsler Space in Berwald Sense

Abdalstar A. Saleem¹, Alaa A. Abdallah^{*2} & Ammar Z. Hussein³

¹Department. of Mathematics, Faculty of Sciences- Aden, University of Aden, Yemen

²Department of Mathematics, Education Faculty, University of Abyan, Zingibar, Yemen

³Department of Mathematics, Education Faculty, University of Lahej, Yafea, Yemen

saleemabdalstar@gmail.com, ala733.ala00@gmail.com & amaralalway@gmail.com

Abstract: *In this paper, we introduced a type of generalized birecurrent space in Berwald sense. The necessary and sufficient conditions for some tensors to be generalized birecurrent in Berwald sense have been obtained. Also, some results in the projection on indicatrix with respect to Cartan connection have been discussed.*

Keywords: Generalized birecurrent space, Berwald covariant derivative, Curvature tensor U_{jkh}^i , Douglas tensor D_{jkh}^i , Projection on indicatrix

