

On Trirecurrence Property for Wely's Curvature Tensor in Finsler Space

Abdalstar A. Saleem¹, Alaa A. Abdallah^{*2}

Department of Mathematics, Faculty of Sciences, Aden University, Aden, Yemen¹

Department of Mathematics, Education Faculty, University of Abyan, Yemen¹

²Department of Mathematics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India²

Abstract: This paper introduces a Finsler space which Wely's curvature tensor W_{jkh}^i satisfies the trirecurrence property in sense of Cartan. Further, we study the relations between the Wely's curvature tensor W_{jkh}^i , normal projective curvature tensor N_{jkh}^i and Berwald curvature tensor H_{jkh}^i .

Keywords: W – trirecurrent Finsler space, Wely's curvature tensor W_{jkh}^i , Affinely connected space