

# Some class of Kenmotsu Manifolds with Generalized Tanaka-Webster Connection

Prakasha Doddabhadrappla Gowda

*Karnatak University, Department of Mathematics, Dharwad, INDIA*  
[prakashadg@gmail.com]

The talk aims at discussing a generalized Tanaka-Webster connection on a Kenmotsu manifold. We study the conharmonic curvature tensor with respect to the generalized Tanaka- Webster connection  $\tilde{\nabla}$  and also characterize conharmonically flat and locally  $\phi$ - conharmonically symmetric Kenmotsu manifold with respect to the connection  $\tilde{\nabla}$ . Besides these we also classify Kenmotsu manifolds which satisfy  $\tilde{K} \cdot \tilde{R} = 0$  and  $\tilde{P} \cdot \tilde{K} = 0$ , where  $\tilde{K}$  and  $\tilde{P}$  are the conharmonic curvature tensor, the projective curvature tensor and Riemannian curvature tensor, respectively with respect to the connection  $\tilde{\nabla}$ .

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