A UNIFIED APPROACH TO COPSON AND
BEESACK TYPE INEQUALITIES ON TIME SCALES

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Abstract. Using time scale calculus we will prove some new theorems that unify the proofs of the continuous and discrete Copson type inequalities and indeed extend the Copson type inequalities to general time scales. Our results prove that the inequalities are true when the exponent k in Copson's inequality is negative and then prove that the approach that has been given by Bessack is also valid for the time scale cases.

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