

Title: A unified approach to dynamic Hardy-type and Copson-type inequalities

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Abstract.

In this paper, we establish a unified treatment of dynamic Hardy-type and Copson-type inequalities. More precisely, we derive a pair of dynamic inequalities which represent time scales extensions of the corresponding recent relations in the classical real setting. Our main results are derived by virtue of the time scales Hölder's inequality, the time scales variant of the Fubini theorem and the time scales power rules of integration. As an application, our results are compared with some previously known results from the literature.