

1124-39-415

**Aykut Arslan\*** (aykut.arslan858@topper.wku.edu), 1906 College Height Blvd #11078, Dept. of Mathematics, Western Kentucky University, Bowling Green, KY 42101, and **Ferhan M. Atici** (ferhan.atici@wku.edu), 1906 College Height Blvd #11078, Dept. of Mathematics, Western Kentucky University, Bowling Green, KY 42101. *Discrete Convexity and Fractional Hermite-Hadamard Inequality.*

In this talk, we introduce the definition of a convex function defined on an isolated time domain. As an application of this new concept, we state and prove the discrete Hermite-Hadamard inequality using time scale calculus. We also give a new characterization of convexity of a function defined on an isolated time domain by the discrete fractional Hermite-Hadamard inequality. (Received September 14, 2016)