

1123-35-145

Mark Allen* (allen@mathematics.byu.edu), Department of Mathematics, Brigham Young University, 275 TMCB, Provo, UT 84604. *Holder continuity for nondivergence equations involving a nonlocal time derivative of Marchaud or Caputo type.*

This talk concerns differential equations involving a generalized Marchaud derivative of nondivergence type. We show Holder continuity for these differential equations. We then apply these results to obtain Holder continuity for nondivergence parabolic equations with a generalized nonlocal time derivative of Marchaud or Caputo type. (Received August 23, 2016)