1086-20-2001 **Mark B. Greer*** (mark.greer@du.edu), University of Denver-Mathematics, John Greene Hall, Room 203, 2360 S. Gaylord St, Denver, CO 80208. *Loops categorically isomorphic to Bruck loops.*

Given a uniquely 2-divisible group, we give a construction (originally used by Baer) for creating a new class of loops we call Γ-loops. Our main goal is showing a categorical isomorphism between uniquely 2-divisible Bruck loops and uniquely 2-divisible Γ-loops. Once this has been established, we can use the well known structure of Bruck loops of odd order to derive the Lagrange, Cauchy, Odd Order, Sylow and Hall theorems for Γ-loops of odd order, as well as the nilpotence of finite Γ-p-loops (p odd). In particular, this answers an open problem regarding the existence of Sylow p-subloops and Hall π-subloops in commutative automorphic loops. (Received September 24, 2012)