

Meeting: 1004, Bowling Green, Kentucky, SS 8A, Special Session on Topology, Convergence, and Order, in Honor of Darrell Kent

1004-54-32

David Bradshaw, Mehrdad Khosravi, Heath M Martin and Piotr Mikusinski*
(piotrm@mail.ucf.edu), Department of Mathematics, University of Central Florida, PO Box 161364, Orlando, FL 32816-1364. *Topological properties of generalized quotients*. Preliminary report.

Starting from a nonempty set X , a commutative semigroup G acting on X , and a (nonempty) index set I , we construct a new space \mathcal{B} whose algebraic character is similar to a quotient field. If X is a topological space and elements of G are continuous maps, then \mathcal{B} can be equipped with a natural topology. We are interested in properties of that topology. (Received January 03, 2005)