Qingxia Li (qliq@lincoln.edu), 701 S Providence Road, Apt 1I, Columbia, MO 65203, and James Schrader* (james.schrader338@my.lincoln.edu), 821 Taylor Drive, Department of Mathematics, Lincoln University, Jefferson City, MO 65102. Infimal Convolution of Convex Set-Valued Mappings.

In this presentation, we first defined the supremum of a Set-valued mapping in a real linear topological space which is partially ordered by a Dedikind complete cone. Then we would tackle the convexity of set valued mappings and derive some infimal convolution properties for convex valued mappings. (Received September 17, 2013)