1083-06-238 **Mahir Bilen Can** (mcan@tulane.edu) and **Tim Twelbeck*** (ttwelbec@tulane.edu), 7532 Hampson Street, New Orleans, LA 70118. *Lexicograpic shellability of partial involutions.*

Partial involutions arise naturally as representatives of certain Borel orbit closures and form a partially ordered set under set inclusion. In this talk we present a proof of the fact that the poset of partial involutions is lexicographically shellable. If time permits we determine the Eulerian intervals of this poset and indicate how partial involutions might be used to obtain new labelings on involutions. (Received September 04, 2012)