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Catherine Andrea Buell* (cabuell@ncsu.edu), 3021 Walnut Creek Pkwy Apt. L, Raleigh, NC 27606. *Conjugacy Classes of σ -stable Maximal k -split Tori*. Preliminary report.

Poster will describe topics requiring these conjugacy classes and methods used to determine them. The focus is on the real numbers and real symmetric spaces, commuting involutions, the Weyl group, and other elements used to determine the conjugacy classes. I will also discuss the fixed point groups of the involution σ and the associated conjugacy classes for further classification. (Received August 13, 2010)