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Phillip R Wesolek* (pwesol13@uic.edu), MSCS, University of Illinois at Chicago, 322 Science and Engineering Offices (m/c 249), 851 s. Morgan Street, Chicago, IL 60607. *Conjugacy classes in locally compact, totally disconnected Polish groups.*

For certain totally disconnected Polish groups the action by conjugation admits a comeagre class. For example, S_∞ (folklore) or $Aut(\mathbb{Q}, <)$ (Truss) admit such a class. On the other hand, it is easy to see any compact group cannot contain a dense conjugacy class. Kechris and Rosendal ask if a locally compact, totally disconnected Polish group can contain a comeagre conjugacy class. We answer the question in the negative and along the way prove a number of interesting structure results. (Received December 02, 2012)