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**Francesco Matucci\*** ([matucci@math.cornell.edu](mailto:matucci@math.cornell.edu)), 310 Malott Hall, Cornell University, Ithaca, NY 14853. *Centralizers in R.Thompson's groups*. Preliminary report.

We give a classification of centralizers of elements in R. Thompson's groups  $F, T$  and  $V$ . This is achieved by using solutions of the ordinary conjugacy problem both from a dynamical perspective, seeing elements as piecewise-linear homeomorphisms, and a combinatorial one, using tree pairs and strand diagrams. We give combinatorial and topological applications of this description. This work was done in collaboration with C.Bleak, A.Gordon, G.Graham, J.Hughes, M.Kassabov, H.Newfield-Plunkett and J.Sapir. (Received January 21, 2008)