1056-37-1187   **Christopher F Novak*** (`cfnovak@umd.umich.edu`), Department of Mathematics and Statistics, University of Michigan-Dearborn, 4901 Evergreen Rd., Dearborn, MI 48128. *One-parameter interval exchange actions.*

The space $\mathcal{E}$ of interval exchange maps on the unit interval is a group under composition. When endowed with a natural topology, $\mathcal{E}$ is given the structure of a topological group. A complete classification of one-parameter interval exchange actions (continuous group homomorphisms $\mathbb{R} \to \mathcal{E}$) is given. In particular, it is shown that any such action is conjugate in $\mathcal{E}$ to an action by disjointly supported restricted rotations. (Received September 21, 2009)

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