1030-37-330   **Nicholas S. Ormes*** (`normes@math.du.edu`), 2360 S. Gaylord St, Department of Mathematics, University of Denver, Denver, CO 80208, and **Daniel J Rudolph** (`rudolphd@math.colostate.edu`) and **Wojciech Kosek** (`wkosek@coloradocollege.edu`). *Flow-orbit equivalence for minimal Cantor systems.*

In this talk, we will discuss "flow-orbit equivalence", orbit equivalences which are simultaneously flow equivalences for minimal Cantor systems. This relation is a topological analog of even Kakutani equivalence for ergodic systems. In addition to establishing many basic facts about this relation, we will characterize the conjugacies of induced systems that can be extended to a flow-orbit equivalence. We will also describe the relationship between flow-orbit equivalence and a distortion function of an orbit equivalence. We will show that if the distortion of an orbit equivalence is zero, then it is in fact a flow-orbit equivalence, and that the converse is true up to a conjugation by an element of the full group. We will also discuss generalizations to higher dimensional free abelian group actions. (Received August 06, 2007)