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Brooke M. Andersen, Asher M. Kach* (asher.kach@uconn.edu), **Bakhadyr Khoussainov, Alexander G. Melnikov** and **D. Reed Solomon**. *Jump Degrees of Countable Structures*.

After introducing/reviewing the notion of (proper) α^{th} jump degree, we will discuss the existence or nonexistence of structures within a fixed class with a prescribed (proper) α^{th} jump degree. In particular, we will consider the class of torsion-free abelian groups and the class of \aleph_0 -categorical structures.

This is joint work with Brooke Andersen, Alexander Melnikov, and Reed Solomon; and Bakhadyr Khoussainov and Alexander Melnikov. (Received September 10, 2010)