1033-03-184   **John D Wallbaum*** (`jwallbau@nd.edu`), 255 Hurley Hall, Notre Dame, IN 46556. *Effective Transformations of Classes of Structures.* Preliminary report.

In computable structure theory, we use notions from computability to study properties of different algebraic structures. Often we are interested in comparing two classes of structures or in transferring results about one class of structures to another class. An effective, isomorphism-preserving transformation helps us do both of these things. In this talk, we will look at some known examples of such transformations between classes of graphs, groups, and fields. We will then look at some more recent transformations from the class of rank-homogeneous trees to the classes of boolean algebras and of torsion-free Abelian groups. (Received September 10, 2007)

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