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Reed Solomon* (david.solomon@uconn.edu). *Computability in Cantor space and in orderings of an abelian group.*

If G is a countable infinite rank torsion-free abelian group, then the space of orders on G is classically homeomorphic to Cantor space. However, the space of orders on a computable torsion-free abelian group is more computationally restricted than a general Π_1^0 class which is classically homeomorphic to Cantor space. This talk will survey some of the known results in this area including connections between computing a basis and computing an order which have been recently refined by Caleb Martin. (Received September 11, 2013)