

1135-06-1763 **Jean S. Joseph*** (jjose107@fau.edu). *Order Type of the Rational Numbers.*

In 1895, Georg Cantor characterized the order type of \mathbb{Q} . A nice consequence of that characterization is that $\mathbb{Q} \times \mathbb{Q}$ with the lexicographic order is isomorphic to \mathbb{Q} . In this talk, we will present an algorithmic version of Cantor's theorem that has a constructive proof. (Received September 24, 2017)