

Department of Mathematics, Statistics and Computer Science

COLLOQUIUM ANNOUNCEMENT

Cardinal Characteristics and Computability

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Abstract

Set theory properly began with Cantor's proof that the set of reals and the set of naturals have different cardinalities. This raised the natural question of whether there was anything in between the two. The claim "Every uncountable set of reals is as big as the whole set of reals itself" became known as the *continuum hypothesis* (CH), and - although it ultimately turned out to be unsolvable in a precise sense - it was a driving force in set theory up until the early 60s. Along the way, though, various "alternate flavors" of the continuum popped up. For example,