



Vitali's Theorem

Canonical name	VitalisTheorem
Date of creation	2013-03-22 13:45:47
Last modified on	2013-03-22 13:45:47
Owner	paolini (1187)
Last modified by	paolini (1187)
Numerical id	5
Author	paolini (1187)
Entry type	Theorem
Classification	msc 28Axx
Synonym	existence of non measurable sets
Related topic	Integral2
Related topic	LebesgueMeasure
Related topic	PsuedoparadoxInMeasureTheory
Related topic	ExampleOfFunctionNotLebesgueMeasurableWithMeasurableLevelSets

There exists a set $V \subset [0, 1]$ which is not Lebesgue measurable. Notice that this result requires the Axiom of Choice.