

The Strange World of Generalized Functions

Evgeni Trofimov

Undergraduate Mathematics Seminar

University of Pittsburgh

November 11, 2014

Abstract

We will talk about regular (classical) functions that are used in courses of college algebra and calculus and see why and how this class of functions can be extended to the class of GFs (generalized functions). We will look at some properties of GFs, consider several nice and unusual results, and see why GFs do not form an algebra.