

Christodoulou Demetrios

Position: Professor of Mathematics and Physics

ETH Zurich

Period: 2001- present



I Scientific Work

Partial Differential Equations

Geometric Analysis

General Relativity

Fluid Mechanics

II 2007-2008 List of Publications

The Formation of Shocks in 3-Dimensional Fluids (monograph, 992 pp.), EMS Monographs in Mathematics, EMS Publishing House (ISBN 978-3-03719-031-9), 2007.

The Euler Equations of Compressible Fluid Flow, Bull. Amer. Math. Soc. 44 (2007), 581-602.

The Formation of Shocks in 3-Dimensional Fluids, Proceedings of Symposia in Applied Mathematics 65, Recent Advances in Nonlinear Partial Differential Equations and Applications: Toledo 2006, pp. 17-30, American Mathematical Society, 2007.