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Gigliola Staffilani*, MIT, room 2-251, 77 Massachusetts Avenue, Cambridge, MA 02138. *The old and the new in dispersive and wave equations.*

Title: The old and the new in dispersive and wave equations

Abstract: In this talk I will review some recent results for dispersive and wave equations and I will connect them with what we now consider classical theorems. For example I will discuss Strichartz and improved Strichartz estimates for the Schrodinger equation on tori, I will talk about the fact that the Gross Pitaevskii hierarchy has infinitely many conservation laws, and I will show how randomization of initial data is compatible with some null forms that appear in certain geometric wave equation problems. (Received July 25, 2017)