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**Bingyu Zhang\*** ([zhangb@ucmail.uc.edu](mailto:zhangb@ucmail.uc.edu)), Department of Mathematical Sciences, University of Cincinnati, Cincinnati, OH 45221-0025. *Sharp Trace Theorems for Solutions of Dispersive Wave Equations and Their Applications*. Preliminary report.

In this talk, we will present several sharp trace theorems for solutions of dispersive wave equations and will explain how those sharp trace theorems play important roles in analysis and control of dispersive wave equations. (Received January 16, 2012)