

Center for Applied Mathematics Colloquium

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“The Cauchy problem for KdV-type equations with analytic initial data”

Wednesday, June 17, 2009

1:00 - 1:45 pm

Location - 258 Hurley Hall

Abstract: We shall consider the periodic initial value problem for a KdV-type equation with analytic initial data. We will show that the solution is analytic in the space variable. The techniques, spaces, and norms used are motivated by the works of Bourgain, Kenig, Ponce and Vega and Colliander, Keel, Staffilani, Takaoka and Tao on the well-posedness of the KdV.