1082-35-46   **Alex A. Himonas***, Alex Himonas, University of Notre Dame, Department of Mathematics, Notre Dame, IN 46556-5683. *Ovsiannikov's theorem and weakly dispersive equations.* Preliminary report.

We shall discuss a refined version of Ovsiannikov's theorem for autonomous equations with initial data in a space of functions that extend analytically in a strip of the complex plane around the x-axis. Then, we will apply this result to some important weakly dispersive equations, namely Camassa-Holm type equations. (Received June 10, 2012)