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Gustavo Ponce* (ponce@math.ucsb.edu), Department of Mathematics, University of California, Santa Barbara, CA 93106. *The IVP for the Benjamin-Ono equation in weighted Sobolev spaces.*

We shall discuss results concerning the well posedness and some optimal uniqueness properties of the solutions to the IVP associated to the Benjamin-Ono equation. These results include some persistence property of the solution flow in weighted Sobolev spaces and some uniqueness properties of these solutions under conditions involving two and three different times. These results have been established in joint works with G. Fonseca and F. Linares, and in a recent work of Cynthia Flores. (Received January 09, 2014)