

Meeting: 1001, Evanston, Illinois, SS 14A, Special Session on Nonlinear Waves

1001-76-190 **Lionel Rosier*** (rosier@iecn.u-nancy.fr), Institut Elie Cartan, Universite Henri Poincare
Nancy 1, B.P. 269, 54506 Vandoeuvre-les-Nancy, France. *Control of the surface of water by a
wavemaker.*

The control of the free surface of water in a long canal by means of a wavemaker is investigated. The fluid motion is described by a Korteweg-de Vries equation in Lagrangian coordinates. The null-controllability is proved thanks to some Carleman estimate. (Received August 26, 2004)