

1016-35-285

Henrik Kalisch* (henrik.kalisch@mi.uib.no), Dept. of Mathematics, Johannes Brunsgate 12, 5008 Bergen, Norway. *Solitary Waves of Depression*.

The regularized long-wave (BBM) equation has exact solitary-wave solutions with both positive and negative amplitude. It is well known that the positive solitary waves are orbitally stable. Here it is shown that the negative solitary waves are stable or unstable depending on their velocity. (Received February 14, 2006)