

1037-35-14

Gideon Pyelshak Daspan* (gdaspan@xula.edu), Xavier University of Louisiana, Department of Mathematics, New Orleans, LA , and **Michael Mudi Tom**. *Comparison of KP and BBM-KP Models.*

In this paper, we show that the solutions of the pure initial-value problem for the KP and regularized KP equations are the same, within the order of accuracy attributable to either, on the time scale $0 \leq t \leq 8722; 3/2$, during which nonlinear and dispersive effects may accumulate to make an order-one relative difference to the wave profiles. (Received November 12, 2007)