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Lokenath Debnath* (debnath1@utpa.edu), Dept of Math, University of Texas - Pan Ameri.

Anti-symmetric KdV equation and application to ocean waves. Preliminary report.

Based on the nonlinear Euler equations and the continually equation in cylindrical polar coordinates, a derivation of an anti-symmetric KdV equation will be considered. Some applications of the anti-symmetric KdV equation will be considered. (Received September 21, 2005)