

1070-35-79

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*on KdV and KP type equations with bounded initial data and introduction of a new dispersive term  
representing viscosity of the fluid.*

Various results are obtained for several equations derived from the KdV with addition of viscosity into the modeling and / or a weakly 2-d effect. Standard existence and uniqueness results are obtained through fixed point arguments; in addition, some results from numerical computation for constant initial data are presented in the appendix. (Received January 27, 2011)