



Tsunami in DERIVE and TI-92

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Abstract:

Tsunami is a big solitary wave i.e. soliton. Solitons run in such nonlinear and dispersive media as nerve fibers, some optical fibers, Gann microwave diodes, long Josephson junctions, etc. It is described with a differential equation in partial derivatives and can be solved numerically in most cases. Still, several analytical solutions were found and it made possible to illustrate most of soliton features using not only special soliton -oriented programs, but such general purpose CAS as DERIVE and TI-92.
