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Variational Boussinesq model for strongly nonlinear dispersive waves

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## ACCEPTED MANUSCRIPT

#### \*Research Highlights

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- A fully nonlinear Variational Boussinesq Model (FN-VBM) is derived for strong nonlinear waves.
- For strongly nonlinear waves, the dispersion quality is improved by new algorithm which minimize the kinetic energy based on deformed spectrum.
- FN-VBM is tested with various experiment (1D and 2D) and the results show a good agreement with experimental data.

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