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**Bernard Deconinck\*** (deconinc@uw.edu). *High-frequency instabilities of small amplitude water waves.*

Different water wave models are compared using the (in)stabilities of their periodic traveling waves with respect to time-oscillating perturbations. For this comparison, no more than the Hamiltonian of the linearized model is required. In fact most of the information is obtained from the dispersion relation of the linear model. (Received August 14, 2015)