Seminar i hydromekanikk

Matematisk institutt

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Nonlinear Hydroelastic Waves

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Abstract: Two and three dimensional flexural-gravity waves on top of a floating ice sheet are considered. The ice sheet is modelled as a thin elastic plate. The fluid underneath the plate is of infinite depth and is assumed to be incompressible and inviscid, while the flow is irrotational. Weakly-nonlinear equations are derived and fully-nonlinear steady and unsteady solutions are computed.