

Fully Nonlinear Equations in Thin Domains: A Test Function Approach

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I will present a result obtain in collaboration with Hitoshi Ishii and Ariela Briani, that studies the asymptotic behaviors of solutions of fully nonlinear equations in thin domains with oblique boundary conditions. The approach will be through a perturbed test function approach à la Evans. The limit equation contains new terms in the second, first and zeroth order terms.