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Exponential Stability for Wave Equations with Indefinite (Non-Dissipative) Damping

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We consider the non-linear wave equation
, , where the function a is allowed to change sign, but has to satisfy
. New conditions are presented for this non-dissipative situation with indefinite damping term, under which the linearized system is exponentially stable, and the nonlinear system is globally well-posed in the small.

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