ID de Contribution: **12**   Type: **Non spécifié**

Indirect stabilization of nonlinear coupled wave equations in the presence of time delay effects

mardi 1 juillet 2025 16:45 (45 minutes)

We consider a system of two wave equations with nonlinear source terms coupled through their velocities. One equation is damped, while the other experiences a pointwise time delay. By reformulating the problem in an abstract framework, we use semigroup theory and energy methods to establish well-posedness and derive conditions guaranteeing exponential energy decay for small initial data.

Author: PIGNOTTI, Cristina (Aquila, Italy)

Orateur: PIGNOTTI, Cristina (Aquila, Italy)