



MAFIA - the seminar you can't refuse

Local Energy Decay for the Asymptotically Periodic Damped Wave Equation

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Abstract: In this talk we will discuss the local energy decay for the damped wave equation in unbounded domains. We will focus on the case of an asymptotically periodic medium. The behavior of the contribution of low frequencies is particularly interesting. As already observed when the damping is effective at infinity, the wave behaves for large times like a solution of a heat equation. We will observe this phenomenon from a spectral point of view. This is a joint work with Romain Joly.