

**SPECTRAL ANALYSIS OF A SYSTEM OF PENDULA
HANGING FROM A VISCOELASTIC STRING AND
OF THEIR SYNCHRONIZATION**

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ABSTRACT. The talk reports the study of the spectrum of the linearization of a hybrid (discrete-continuous) mechanical system formed by a number of identical pendula hanging from a (Kelvin–Voigt) viscoelastic string, with an analysis of the ensuing synchronization patterns in the pendula’s motion.

Joint work with S. Galasso and A. Ponno.