## Stability of abstract thermoelastic delayed systems

Kais Ammari (Monastir, Tunisie)

Résumé. In this talk, a stabilization problem for a generalized thermoelastic system with delay, known as the \$\alpha-\beta\$ system, is addressed. The well-posedness of the system is proven using the semigroup approach. Under certain conditions, exponential and polynomial stability of the system is established via a frequency-domain approach. These theoretical results are then applied to specific examples in thermoelasticity.