RECENT ADVANCES IN VISCOELASTICITY

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In this talk we intend to present some recent results regarding the stability of some viscoelastic problems. We introduce new Lyapunov type functional which help in proving decay of the classical energy at some prescribed desirable rate. The assumptions on the relaxation functions are weakened and therefore the space of admissible viscoelastic materials for the targeted rate is enlarged when compared to the existing ones in the literature.