Hamilton Institute

Asymptotic Properties of Volterra Equations

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Abstract:
Volterra integral and difference equations may be used to model the dynamics of physical systems (viscoelasticity, motion of bodies with reference to hereditary) and biological systems (populations dynamics, biomechanics). In this talk we discuss about asymptotic properties of solutions of both, Volterra integral and Volterra difference equations. For the Volterra difference equations, we derive stability conditions based on the direct Lyapunov method and present some examples to illustrate them.

Bio:
Professor Castellanos: http://galia.fc.uaslp.mx/~ecastellv/

Venue: Seminar Room, Hamilton Institute, Rye Hall,
         NUI Maynooth

Time: 2.00 - 3.00pm (followed by tea/coffee)

Travel directions are available at www.hamilton.ie

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