



# Hamilton Institute

Theoretical aspects of period control systems:  
an application to the Belgian chocolate problem

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**Abstract:**

In this talk I will briefly describe the main achievements of periodic control in the last decades and underline the recent challenges offered by typical design problems, in both the frequency and state space domains. The theory is then applied to cope with the so-called Belgian chocolate problem, a paradigmatic example on how periodic and/or switching control can outperform the stabilization properties of linear time-invariant systems.

**Bio:**

Professor Colaneri: <http://home.dei.polimi.it/colaneri/indice.htm>

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

**Time:** 10.30am - 11.30am (followed by tea/coffee)

Travel directions are available at [www.hamilton.ie](http://www.hamilton.ie)