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Scoil na Matamaitice agus na Staitisticí UCD

An Coláiste Ollscoile, Baile Átha Cliath Belfield, Baile Átha Cliath 4, Éire

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General Interest Seminar

Prof. Brendan Guilfoyle (IT Tralee)

will speak on

Living in a land with two times

Mon 2nd September 2019 at 3:00PM

Location: Seminar Room SCN 1.25

In this talk I will discuss the utilisation of neutral metrics – metrics of signature (n,n) – to investigate manifolds of various dimensions. Such metrics with more than one negative eigenvalue, while relatively neglected in comparison to their Riemannian and Lorentzian counterparts, arise in a surprising number of natural settings. In particular, embedding problems between manifolds often inherit such a metric. To illustrate this a series of canonical isometric embeddings will be presented along with their links with classical surface theory, the X-ray transform, invariants of knots, and quasi-linear Navier-Stokes equations.

There will be tea and coffee afterwards in the common room. Everyone is welcome.

This talk is part of the **General Interest** series. For more, see https://maths.ucd.ie/seminars