



**UCD School of
Mathematics and Statistics**

University College Dublin
Belfield, Dublin 4, Ireland

Tel +353 1 716 2580
Fax +353 1 716 1196

**Scoil na
Matamaitice agus na Staitisticí UCD**

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

Email seminars@maths.ucd.ie
Web maths.ucd.ie/seminars

Algebra and Number Theory Seminar

Rod Gow

will speak on

Constant rank subspaces of matrices 2

Mon 22nd September 2008 at 4:00PM

Location: Mathematical Sciences Seminar Room

We will use octonions to construct a 7-dimensional constant rank 6 subspace of real 7×7 skew-symmetric matrices which is invariant under the compact Lie group $G_2(\mathbb{R})$. *The action of the group is transitive on the one-dimensional subspaces of this space, implying in a strong way the constant rank property of the subspace.*

This talk is part of the **Algebra and Number Theory** series. For more, see
<https://maths.ucd.ie/seminars>