



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

Analysis Seminar

P. Mellon

will speak on

Holomorphic dynamics on bounded symmetric domains

Tue 20th March 2018 at 4:00PM

Location: SCN 125

The open unit ball, B , of a Banach space is homogeneous if given any two points z, w in B , there is a biholomorphic map sending z to w . Such balls classify the bounded symmetric domains, include many classical spaces and ensure a Jordan structure on the underlying space. Let $f : B \mapsto B$ be a holomorphic fixed-point free map. The behaviour of the sequence of iterates, $f^n = f \circ f^{n-1}$, of f is the subject of much study since the Wolff Denjoy results for the complex disc Δ in 1926. Generally, in infinite dimensions, (f^n) does not converge, even in the Hilbertspace case. Our work therefore seeks to establish the 'location' of accumulation points of (f^n) , with respect to the topology of local uniform convergence on B . This seminar will present results in this direction, using a recently proved Wolff type theorem for infinite dimensional bounded symmetric domains.

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