



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

M. Ghergu

will speak on

Exact behaviour of positive solutions near isolated singularity in a logarithmic setting

Tue 28th November 2017 at 4:15PM

Location: SCN 125

We study the exact behaviour around the isolated singularity at the origin for C^2 -positive solutions of $-\Delta u = u^\alpha |\log u|^\beta$ in a punctured neighbourhood of the origin of R^n , $n \geq 3$. This talk discusses first the power case $\beta = 0$ then underlines the difficulties in dealing with logarithmic terms and presents further directions of investigation. This is based on a joint work with Henrik Shahgholian (KTH, Stockholm) and Sunghan Kim (National University of Seoul, Korea).

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