



UNIVERSITY
OF MANITOBA



Pacific Institute *for the*
Mathematical Sciences

PIMS-UManitoba Distinguished Lecture

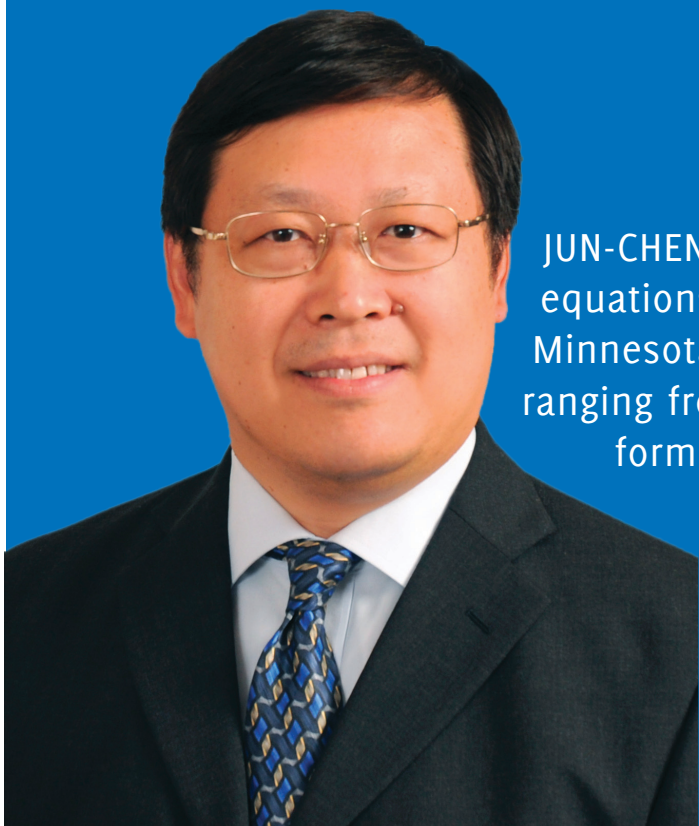
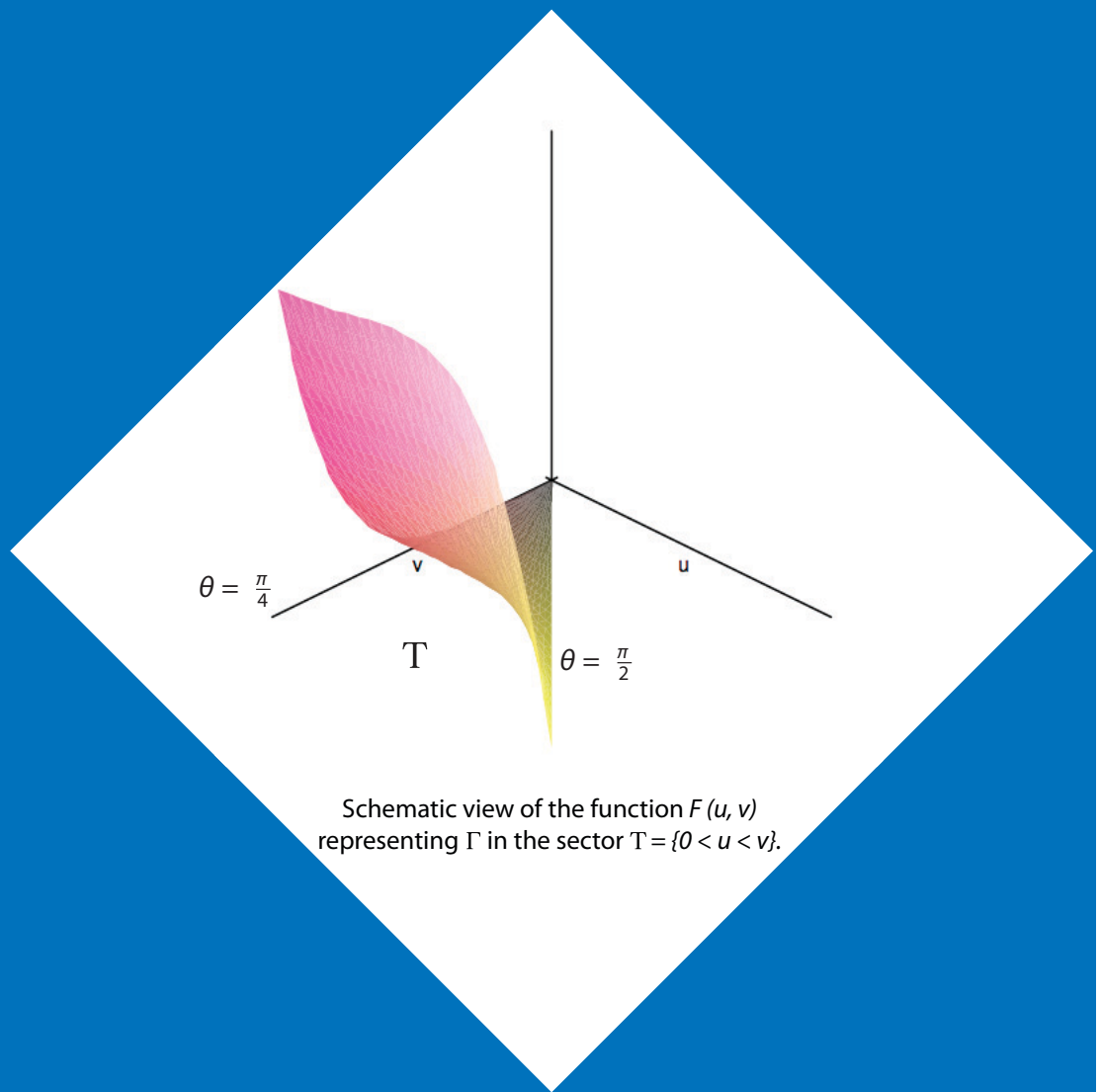
Jun-Cheng Wei (University of British Columbia)

29 September, 2016
4:00 pm

Robert B. Schultz Lecture Theatre
University of Manitoba

ON DE GIORGI CONJECTURE AND BEYOND

Classifying solutions is one of central themes in nonlinear partial differential equations. This is the content of various Liouville type theorems and more recently De Giorgi type conjectures. I will report recent progress towards De Giorgi's conjecture for Allen-Cahn equation and free boundary problems, and related issues in nonlinear Schrödinger equations.



JUN-CHENG WEI, Canada Research Chair (Tier I) in nonlinear partial differential equations, University of British Columbia, received his PhD from University of Minnesota in 1994. His research covers both pure and applied mathematics, ranging from De Giorgi and Liouville properties of nonlinear PDEs to pattern formation in mathematical biology. He has published more than 350 refereed papers and is cited over 6000 times (according to AMS MathScinet). He is an invited speaker at the International Congress of Mathematicians (Korea, 2014), a plenary speaker at the International Congress of Chinese Mathematicians (Beijing, 2010), the Cheung Kong Chair Professorship (2015) and recipient of Morningside Silver Medal in Mathematics (2010) and Senior Croucher Fellowship (2005).