Juncheng WEI

Department of Mathematics

In a world of abstract ideas and indecipherable data, Professor Juncheng Wei is a mathematician rooted firmly in the important things in life. Clearly a devoted father, he describes his two children as 'angels', and his work on nonlinear partial differential equations focuses on applications in the physical and biological sciences. In essence, he devises mathematical understandings of the changing patterns produced in nature.

Educated in mainland China and the US, Professor Wei excelled early, gaining three outstanding student awards at Wuhan University and an Outstanding Thesis Award for his doctoral dissertation at the University of Minnesota. Since joining the Department of Mathematics at CUHK in 1995, he has conducted internationally recognized work on a systematic approach to understanding nonlinear patterns in one or two spatial dimensions. He is the recipient of a Young Research Award (2004–2005) and a Croucher Senior Research Fellowship (2005–2006).

Professor Wei and his team are considered the world's leading group in their field, and their studies have explored new dimensions of both pure and applied mathematics. Having led research projects funded by Hong Kong, Germany and France, Professor Wei has been invited to share his expertise through short-term visiting positions at universities on four continents. He has also organized a number of prestigious international conferences in conjunction with such distinguished organizations as the Banff International Research Station for Mathematical Innovation and Discovery in Canada and Mathematisches Forschungsinstitut Oberwolfach in Germany. With more than 120 papers published in leading mathematical journals, Professor Wei is amongst the 20 most-cited authors in his field—clear recognition of his ground-breaking efforts.

✉ *wei@math.cuhk.edu.hk*