National Center for Theoretical Sciences

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National Science and Technology Council

國立高雄大學
National University of Kaohsiung

International Conference on
Shock Wave Theory in General Relativity and Fluid Dynamics

Date **2026/04/7-10** **Venue** R515, Cosmology Bldg., NTU

Aim & Scope

The theory of shock waves is one of the most important and interesting topics of fluid dynamics. Shock waves historically arose in the setting of the classical compressible Euler equations, but the theory of shock waves extends meaningfully to discontinuous weak solutions of equations governed by general nonlinear hyperbolic systems of balance laws. Blake Temple is a major contributor to shock wave theory in general relativity and classical fluids. The aim of this conference is to gather leading experts to present their recent results on this topic, and to honor Blake Temple for his deep mathematical contributions to shock wave theory over the past four decades.

Invited Speakers

Christopher Alexander (Rutgers University)
Manas Bhatnagar (University of Massachusetts Boston)*
Adhiraj Chaddha (City University of Hong Kong)
Chueh-Hsin Chang (National Chung Cheng University)
Geng Chen (University of Kansas)
I-Kun Chen (National Taiwan University)
Marcelo Disconzi (Vanderbilt University)
Lawrence Craig Evans (University of California, Berkeley)
Albert Fannjiang (University of California, Davis)*
Heinrich Freistühler (Konstanz University)
Helge Holden (Norwegian University of Science and Technology)
John Meng-Kai Hong (National Central University)
Bo-Chih Huang (National Chung Cheng University)
Kris Jenssen (Penn State University)*
Tao Luo (City University of Hong Kong)
Takaaki Nishida (Kyoto University)
Moritz Reintjes (City University of Hong Kong)
Blake Temple (University of California, Davis)
Zeke Vogler (Google)
Kung-Chien Wu (National Cheng Kung University)
Tong Yang (Hong Kong Polytechnic University)
Robin Young (University of Massachusetts, Amherst)
*Online Talk

Organizers

Yu-Shuo Chen (National Changhua University of Education)
I-Liang Chern (National Taiwan University)
Shih-Wei Chou (Soochow University)
John Meng-Kai Hong (National Central University)
Bo-Chih Huang (National Chung Cheng University)
Ying-Chieh Lin (National University of Kaohsiung)

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