

Preface



Professor Xian-Tu He

This special issue originated from *Workshop on the Frontiers on Computational Physics, in Honor of Professor Xian-Tu He's 70th Birthday*, which was held in the Chinese University of Hong Kong on October 1-2, 2007 and consists primarily of contributions by participants in the Workshop together with some friends of Professor He. As co-editors of this special volume, we would like to take this opportunity to thank the Chinese University of Hong Kong, the local organizing committee of the Workshop, in particular, Professor Hai-Qing Lin, Head of Physics at CUHK, for their great effort which made the Workshop very memorable and enjoyable.

We think that we can speak for all the people attended this Workshop and the authors who contributed to this special volume: we went to the Workshop and we chose to publish our latest results for this special event to show our great respect to Prof. He. In addition to great contributions Prof. He has made to numerous important scientific areas, including high energy density physics, computational physics, statistical physics, plasma physics, nonlinear sciences and inertial confined fusion, we see Prof. He as a true scholar and a leader for promoting cutting-edge technology and future sciences. To many of us, we still remember long hours we worked with Prof. He on one formula or one number in our joint publications; we still remember vividly his four-hour long energetic and enthusiastic speech on computational physics while the original scheduled lecture was only for one hour; we also witnessed how Prof. He encouraged and promoted young scientists in their career path by praising their discoveries, sending recommendation letters and giving honest advices. Prof. He has been a true friend, a respectable colleague or an inspirational mentor. He is special to us.

To publish this special volume in the journal of *Communications in Computational Physics*, for which Prof. Xian-Tu He is the Editor-in-Chief, we also honor Prof. He for his enormous contribution to the journal itself. His leadership, his vision and his friendly working style are the key to the success of this uprising important journal.

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Zhihong Lin, University of California at Irvine
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