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Multiscale Methods in Plasma Physics

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Message from the Guest Editors

Dear Colleagues,

The US–Japan Joint Institute of Fusion Theory Workshop on “Multiscale Methods in Plasma Physics” was held August 22–24, 2017 at the University of Colorado, Boulder, USA. This workshop focused on implicit methods combined with multiscale techniques for bridging fine and coarse scales in plasma physics. Topics included coupling the microturbulence scale with the transport scale in fusion plasmas, orbit-averaging, subcyclotron, and multiple time step techniques in particle-in-cell models and equation-free methods. International experts in this emerging field came together for a small discussion-oriented workshop. Select papers from work reported at this workshop are highlighted in this Special Issue.

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Special Issue