



Conference on Long-Range Interacting Many-Body Systems: from Atomic to Astrophysical Scales (25 - 29 July 2016)

Venue: ICTP Leonardo da Vinci Building - Budinich Lecture Hall (tel: +39 040 2240346, fax: +39 040 224163, e-mail: smr2830@ictp.it)

Title: Hybrid percolation transition induced by long-range dynamics

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Percolation transition had been known as a generic continuous transition. However, recently many percolation-related models in complex systems show discontinuous or hybrid phase transitions. Here I show that such types of percolation transitions can occur based on long-range dynamics. Critical properties of the hybrid percolation transitions are compared with those of ordinary continuous percolation transition.