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CONDENSATION OF FLUCTUATIONS

Friday, 11 December 2015 13:00 (30 minutes)

Observing fluctuations of an extensive quantity is alike to put a constraint on the system. Though it may sound odd, the statement is of general validity, with far reaching consequences both in equilibrium and out of equilibrium. Its meaning becomes precise in the framework of large deviation theory. As an example of the connection, in the talk it will be shown that the so called grand-canonical-catastrophe of the Ideal Bose Gas is an instance of condensation of fluctuations. The relation to the recently experimentally observed condensation of photons will be hinted to.

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