



## 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: Long-range interactions in cold atomic systems

> > Speaker: Igor LESANOVSKY

Affiliation: The University of Nottingham School of Physics & Astronomy U.K.

In this talk, I will review current developments in the domain of cold atomic physics. I will particularly focus on the role of long-range interactions - how they emerge, how they can be tuned and how they influence the behaviour of engineered many-body quantum systems. This talk will mostly focus on theoretical aspects, but will attempt to connect to the most recent experimental developments.