



Contribution ID: 152

Type: **Talk**

## **Nuclear short range correlations and universality**

*Tuesday 3 September 2019 15:20 (20 minutes)*

Few years ago it was suggested by S. Tan that the properties of cold and dilute quantum gases depend on a new characteristic quantity, the contact<sup>2</sup>, that describes the probability of two particles coming close to each other. Generalizing this concept to nuclear physics interesting relations between e.g. the 1-body, 2-body momentum distributions, and the 2-body density can be derived. In my talk I will present Tan's contact<sup>2</sup> and its generalization to nuclear and molecular systems. I will introduce the various nuclear contacts, and their applications to analyse electron scattering experiments.

**Presenter:** BARNEA, Nir (The Hebrew University)

**Session Classification:** Parallel Session Tuesday: Short-Range Correlations in Nuclei

**Track Classification:** Nuclei