



Contribution ID: 274

Type: **Oral presentation**

## Quantum metrology frontiers with cold atoms

*Tuesday, 10 July 2018 09:30 (30 minutes)*

In the last decades, advances in the level of precision in controlling atomic and optical systems opened up the low-energy precision frontier to fundamental physics tests. Exploitation of quantum entanglement in such systems to further improve the sensitivity of certain existing approaches is currently an active field of research. Drawing from the experiments in our lab, in this talk I will focus on the properties, generation and usage of a particular set of entangled states called spin squeezed states.

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**Session Classification:** Plenary Session