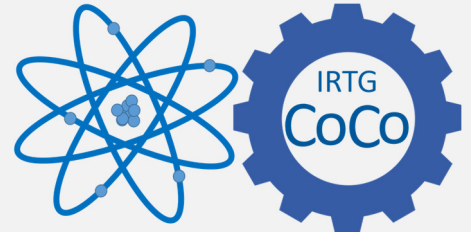




# IRTG-Joint Seminar



## Markus Schulz-Weiling

### “The phase-space evolution of a molecular ultracold plasma”

Ultracold neutral plasmas (UNPs) present a well-defined framework in which to study many-body Coulomb systems in a regime of strong coupling, a condition that occurs when the average potential energy of particle-particle interactions exceeds the average kinetic energy. In our experiment, we create a UNP of NO ions and electrons, which has a well defined initial phase-space density distribution. On the basis of classical plasma theory, one can model the evolution of this system. In my talk, I will compare our theoretical model with experimental observation.

**Tuesday, February 9<sup>th</sup>, 2016,**

**(UF) 6:00p.m., room 023, 1<sup>st</sup> floor, RZ, Hermann-Herder-Str. 10**

**(UBC) 9:00a.m., place: tba**