Contribution ID: **23** Type: **not specified**

Study of identical and non-identical particle correlations at RHIC energies within microscopic models.

Wednesday, 14 October 2009 16:30 (30 minutes)

Microscopic transport models are found to reproduce well many features of ultra-relativistic heavy-ion collisions.
Our aim is to study the femtoscopic correlations of different particle systems: pion-pion, pion-kaon, pion-proton, and pion-Xi within the quark-gluon string model (QGSM) and ultra-relativistic quantum molecular dynamics (UrQMD) model.
We are extracting space-time sizes and asymmetries of particle emission and comparing the extracted characteristics with the available experimental data as well as with the freeze-out parameters obtained from the microscopic models.

Primary author: Mr NILSSON, Mads Stormo (Department of Physics, University of Oslo)

Co-authors: Dr ZABRODIN, Evgeny (Department of Physics, University of Oslo); Prof. BRAVINA, Larissa (Department of Physics, University of Oslo); MALININA, Ludmila (Institute for Nuclear Physics, Moscow State University)

Presenter: Mr NILSSON, Mads Stormo (Department of Physics, University of Oslo)

Session Classification: Dynamics and the Equation of State (1/2)

Track Classification: Investigating Dynamics and the EOS with Correlations