SAIP2016



Contribution ID: 145 Type: Oral Presentation

Quantum Boltzmann evolution of the Quark-Gluon Plasma

Tuesday, 5 July 2016 11:30 (20 minutes)

Abstract content
 (Max 300 words)
 dry-Formatting &
 &class="blank">Formatting &class="blan

The rapid equilibration of the Quark-Gluon Plasma, produced in nucleus-nucleus collisions in a far-from-equilibrium initial state, seems to be difficult to understand theoretically. One reason could be that almost all existing approaches based on the relativistic Boltzmann equation neglect quantum-statistics features of the quarks and gluons. Against this background we put forward a novel Monte-Carlo method to solve the Boltzmann equation, with quantum effects included.

Apply to be
br> considered for a student
 award (Yes / No)?

Yes

Level for award

dr> (Hons, MSc,

%nbsp; PhD, N/A)?

MSc

Main supervisor (name and email)
shr>and his / her institution

Andre Peshier andre.peshier@uct.ac.za University of Cape Town

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

Yes

Please indicate whether

-br>this abstract may be

-published online

-(Yes / No)

Yes

Primary author: Mr GRUNOW, William (University of Cape Town)

Presenter: Mr GRUNOW, William (University of Cape Town)

Session Classification: Theoretical and Computational Physics (1)

Track Classification: Track G - Theoretical and Computational Physics