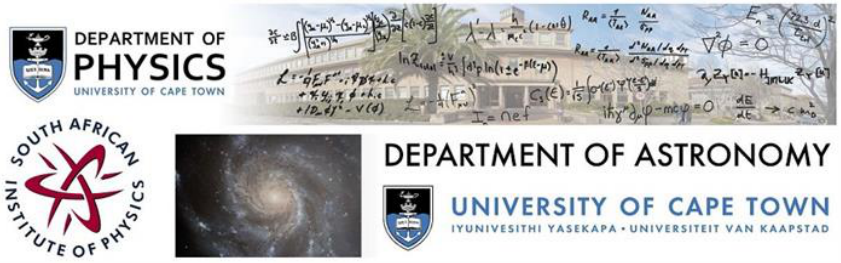


Contribution ID: **145** Type: **Oral Presentation**

# Quantum Boltzmann evolution of the Quark-Gluon Plasma

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

## Abstract content <br>   (Max 300 words)<br><a href="http://events.saip.org.za/getFile.py/a target="_blank">Formatting &<br>Special chars</a>

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 <br>   award (Yes / No)?

Yes

## Level for award<br> (Hons, MSc, <br>   PhD, N/A)?

MSc

## Main supervisor (name and email)<br>and his / her institution

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

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

Yes

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Yes

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

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

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