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Compact stars for NITheP internship programme

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Abstract content
 (Max 300 words)
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We report on an undergraduate and Honours student project conducted in the November/December 2013 NITheP internship programme. The aim of the project is to establish equations of state for white dwarfs and neutron stars for computing mass-radius relations as well as corresponding maximum masses. First, white dwarfs are described by a Fermi gas model of degenerate electrons and neutrons and effects from general relativity are examined. For neutron star matter, the influence of strong nucleon-nucleon interactions is studied. Finally, masses and radii of neutron stars are computed for given central pressure.

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

No

Level for award

- (Hons, MSc,

- PhD)?

N?A

Main supervisor (name and email)

-br>and his / her institution

N/A

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

Yes

Primary author: Prof. MURONGA, Azwinndini (University of Johannesburg)

Co-authors: Ms NYALUNGA, Gezekile (NITheP); Mr PHUTHU, Lutendo (NITheP); Ms THUSINI, Xolile

(NITheP)

Presenter: Prof. MURONGA, Azwinndini (University of Johannesburg)

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