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## Compact stars as laboratories for fundamental physics

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

Compact stars are the remnants of stellar evolution. In this lecture we will look at the neutron stars, white dwarfs, exotic stars and black holes. In order to appreciate the full scope of fundamental physics the lecture will briefly start from the supernova core collapse and onwards to compact stars and black holes. The main aim of the lecture is to show how the four fundamental forces of nature can be studied in this field of astrophysics and how one can apply the methodology from different branches of physics to understand the natures of compact stars and the dynamics leading up to their formation.

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