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### Search for chirality in 192Tl

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

It was revealed at iThemba LABS that chiral symmetry can develop in the thallium isotopes with mass A  $\sim$  190. In order to search for chiral candidates in these isotopes,  $\gamma$ -spectroscopy measurements on 192Tl were performed at iThemba LABS, using a heavy-ion reaction of 160Gd(37Cl, 4n) at

167 MeV beam energy and a thin target of 1.0 mg/cm2. Previous level scheme of 192Tl was considerably extended. Spins and parities were assigned to most of the levels and relative intensities of  $\gamma$ -ray transitions were measured. Most important is that a weak band that is suggested as a possible chiral partner to the yrast band was discovered. Both bands are built on  $\pi$ h9/2×vi13/2 configuration. More details on these new results will be presented.

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No

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

N/A

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

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