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## Orientation of the Ge crystals of the iThemba LABS segmented clover detector

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

The iThemba LABS segmented detector include four Ge crystals in a clover configuration in a single cryostat [1]. The orientation of the Ge crystals inside the cryostat is measured with a collimated source, where the axis of the collimator is perpendicular to the front face of the detector cryostat.

In addition, the orientation of the crystal lattice is being investigated by measuring the T30 and T90 rise times. This orientation plays a crucial role in the correct simulation of the charge collection and generating realistic pulse shapes.

[1] F. A. Beck, et al., Proceedings of Workshop on Large g Ray Detector Arrays, Chalk River, AECL-10613. 1994, p. 359.

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No

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N/A

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

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Yes

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