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## A multiplet of chiral bands in $^{194}\text{Tl}$ : DSAM lifetime measurements

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

When a left-handed and a right-handed nuclear systems form in the angular momentum space, a pair of nearly degenerate rotational bands is observed. To identify chiral symmetry most important is to establish near-degeneracy of the B(M1) and B(E2) transition probabilities of the partner bands, which needs dedicated lifetime measurements. Such measurements were performed for four bands of  $^{194}\text{Tl}$ , including the pair of four-quasiparticle chiral bands with close near-degeneracy. The lifetime measurements confirm the excellent near-degeneracy in this pair and suggest that a third band may be closely involved in the chiral symmetry scenario.

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