

### SLS: X-RAY TOMOGRAPHY HELPS UNDERSTAND HOW THE HEART BEATS



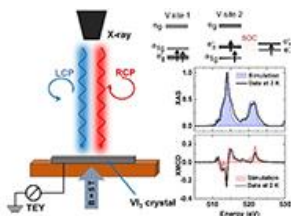
Researchers at the Swiss Light Source SLS's TOMCAT beamline have used phase contrast X-ray imaging to study a rat's heart as it beats. The work will pave the way to investigations into how the heart beats on a cellular level, and understanding the effect of disease and drugs on the cardiac cycle.

**Read more:** <https://www.psi.ch/en/media/our-research/nanomaterial-from-the-middle-ages>

*Hector Dejea et al., Frontiers in Cardiovascular Medicine, 22<sup>nd</sup> December 2022*

DOI: [10.3389/fcvm.2022.1023483](https://doi.org/10.3389/fcvm.2022.1023483)

### SLS — DISCOVERY OF A LARGE UNQUENCHED ORBITAL MOMENT IN A 2D VAN DER WAALS FERROMAGNET



3d transition metals often exhibit a quenched orbital moment when in a solid state system. Therefore, the proposition of a large unquenched orbital moment for V in  $\text{VI}_3$  caused some surprise and discussion in the scientific community. Experimental and theoretical works diverge on the fact of whether the orbital moment is quenched or not. In our work we have been able to give an answer this open issue, proposing also a model for the ground state of  $\text{VI}_3$ .

**Read more:** <https://www.psi.ch/en/micmag/scientific-highlights/discovery-of-a-large-unquenched-orbital-moment-in-a-2d-van-der-waals>

*D. Hovančik et al., Nano Lett. 2023, Published 1 February*

DOI: [10.1021/acs.nanolett.2c04045](https://doi.org/10.1021/acs.nanolett.2c04045)

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**Read more:** <https://wayforlight.eu/en/industries/>