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Title:	Long-range magnetic ordering in Na <sub>2</sub> IrO <sub>3</sub>
Authors:	Singh, Yogesh (/jspui/browse?type=author&value=Singh%2C+Yogesh)
Issue Date:	2011
Publisher:	American Physical Society
Citation:	Physical Review B - Condensed Matter and Materials Physics, 83 (22), art. no. 220403
Abstract:	We report a combined experimental and theoretical investigation of the magnetic structure of the honeycomb-lattice magnet Na <sub>2</sub> IrO <sub>3</sub> , a candidate for a realization of a gapless spin liquid. Using resonant x-ray magnetic scattering at the Ir L <sub>3</sub> edge, we find three-dimensional long-range antiferromagnetic order below T <sub>N</sub> =13.3 K. From the azimuthal dependence of the magnetic Bragg peak, the ordered moment is determined to be predominantly along the a axis. Combining the experimental data with first-principles calculations, we propose that the most likely spin structure is a zig-zag structure.
Description:	Only IISERM authors are available in the record.
URI:	<a href="http://prb.aps.org/abstract/PRB/v83/i22/e220403">http://prb.aps.org/abstract/PRB/v83/i22/e220403</a> ( <a href="http://prb.aps.org/abstract/PRB/v83/i22/e220403">http://prb.aps.org/abstract/PRB/v83/i22/e220403</a> )
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