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Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/2604 Title: Evolution of magnetism in Ru doped Na2IrO3 Authors: Mehlawat, K. (/jspui/browse?type=author&value=Mehlawat%2C+K.) Singh, Yogesh (/jspui/browse?type=author&value=Singh%2C+Yogesh) Keywords: Synthesized Honeycomb Crystalline samples Iridate material Issue Date: 2016 Publisher: American Institute of Physics Citation: AIP Conference Proceedings,1731. We synthesized Ru doped single crystalline samples of the honeycomb iridate material Na2IrO3 Abstract: and studied their magnetic properties using AC and DC magnetic susceptibility. The parent compound Na2IrO3 is a spin orbit driven Mott insulator with long range order below TN = 15 K. We find that even smallest substitution of Ru changes the antiferromagnetic long range order state to a spin glass like state indicating the fragile nature of magnetism in Na2IrO3. We track the freezing temperature Tg as a function of Ru concentration and the shift of Tg with frequency f of the ac modulation in AC susceptibility which is found to be very different from canonical spin-glasses like Cu-Mn. URI: https://aip.scitation.org/doi/10.1063/1.4948202 (https://aip.scitation.org/doi/10.1063/1.4948202) http://hdl.handle.net/123456789/2604 (http://hdl.handle.net/123456789/2604) Appears in Research Articles (/jspui/handle/123456789/9)

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