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New magnetic orderings in Na_xCoO_2[1] JIUNN-YUAN LIN, Institute of Physics, National Chiao Tung University — Na_xCoO_2 has a rich phase diagram and intriguing physical properties. Very recently, it has been found that there exist further magnetic orderings at low temperatures in additional to the known 22 K antiferromagnetic phase. In this paper, we report two distinct types of ordering occurring at 8 K and 15 K for x=0.834 respectively, revealed by the specific heat and magnetization measurements. Both orderings are of metamagnetism.

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