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Systematic ARPES study on Na-rich Na_xCoO_2 (0.75<x<1) Y.-M XU, Boston College, P. RICHARD, M. NEUPANE, F.-C. CHOU, C.-T. LIN, M. GAO, Z. WANG, H. DING — The phase diagram of the cobaltite Na_xCoO_2, with varying Na concentration x, is very rich and complicated. At the high-doping regime (x>0.75), the system was found to be more correlated, with a spin-density-wave state emerging at low temperatures. A stable phase was found with $\sqrt{13}\times\sqrt{13}$ symmetrical superstructure at Na-rich doping cobaltite. We will report our recent ARPES results of the Na-rich Na_xCoO_2 (0.75<x<1) samples.

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