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Electronic Structures of Na in Na_xCoO_2 PAOAN LIN, Institute of Physics, Academia Sinica, Taiwan, D. J. HUANG, Natinal Symchrotron Radiation Research Center, HORNG-TAY JENG, Institute of Physics, Academia Sinica, Taiwan, CHEN-SHIUNG HSUE, Department of Physics, National Tsing Hua University, Taiwan — Sodium cobalt oxides (Na_xCoO_2) have attracted renewed because of their exceptionally large thermoelectric power recent discovery of superconductivity in their hydrated counterparts. In order to investigate the dependence on th doping-concentration for the electronic structures, we hav carried out a series of LDA+U Ab initio calculation on sod cobalt oxides (Na_xCoO_2) of various dopings. The calcul results were compared with experimental results of polarization-dependent soft x-ray absorption spectroscopy.

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