Recent ARPES results on electron-doped high-Tc superconductors and comparison to their hole-doped counterparts PIERRE RICHARD, ZIHUI PAN, MADHAB NEUPANE, YIMING XU, Boston College, PATRICK FOURNIER, Université de Sherbrooke, SHILIANG LI, PENGCHENG DAI, University of Tennessee, Knoxville, ZIQIANG WANG, HONG DING, Boston College — Since the CuO$_2$ planes of cuprates, where high-temperature superconductivity occurs, can be doped either by holes or electrons, it appears important to establish similarities between these two types of doping in order to have an overview of high-temperature superconductors, especially for the electronic structure. Hence, although much less studied by ARPES than their hole-doped counterpart, the electronic structure of the electron-doped cuprates is believed to provide essential hints towards the understanding of high-Tc superconductivity. We present our recent ARPES results on electron-doped cuprates, focusing on various ranges of energy. We compare the results to those obtained on commonly studied hole-doped cuprates.

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