Investigation of charge order in Ca$_{2-x}$Na$_x$CuO$_2$Cl$_2$ using ARPES

JIANQIAO MENG, M. BRUNNER, GEY-HONG GWEON, Department of Physics, UC Santa Cruz, K.-H. KIM, H.-G. LEE, Department of Physics, Pohang University of Science and Technology, S.-I. LEE, Department of Physics, Seogang University, DEPARTMENT OF PHYSICS, UC SANTA CRUZ TEAM, DEPARTMENT OF PHYSICS, POHANG UNIVERSITY OF SCIENCE AND TECHNOLOGY COLLABORATION, DEPARTMENT OF PHYSICS, SEOGANG UNIVERSITY COLLABORATION — The electronic structure of doped cuprate superconductors Ca$_{2-x}$Na$_x$CuO$_2$Cl$_2$ of various doping values (including underdoping, optimal doping and overdoping) is investigated using angle-resolved photoemission spectroscopy (ARPES). We discuss our new data in terms of charge order, by comparing them with the ARPES data and the scanning tunneling spectroscopy data in the literature.

Date submitted: 24 Nov 2009

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