

TW-004

Brief Introduction to Angle-Resolved Photoemission Spectroscopy

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Angle-resolved photoemission spectroscopy (ARPES) is a powerful tool to investigate the electronic structure of a single-crystalline solid. After the development of a two-dimensional electron detector, it became a basic experimental method in solid state physics comparable to other powerful tools such as x-ray and neutron scatterings. In this tutorial, I talk briefly on the basic principle of ARPES and its recent and future direction of development.

Keywords: angle-resolved photoemission, electronic structure, energy band