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## AN UNOCCUPIED ELECTRONIC STRUCTURE OF Na/Cu(110)

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Ultra violet inverse photoelectron spectroscopy (uv-ipes) is a powerful technique for the investigation of alkali metals on metal surfaces because most of the alkali metals show chemical and physical properties, which are related to their unoccupied states. In this study, it is found that the uv-ipes spectra provides the intensity of the unoccupied states which decreases with increasing na coverage at off-normal incidence of the electron beam. It is also found that the uv-ipes spectra at 17 and 19 ev incident electron energies presents a shift toward fermi level on the peak at  $\sim 7.8$  ev with increasing na coverage.