FIRST RESULTS OF ESCAMICROSCOPY BEAMLINE

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Selected compositional images and microspot spectra of different samples, which illustrate the present status of the ESCA Microscopy beamline, will be shown and briefly discussed. They include: (I) comparison of the spatial resolution by imaging in transmission and photoemission mode; (II) mapping of the inhomogeneous carbon distribution in tool steel; (II) micro-spectroscopy of inhomogeneously oxidized polycrystalline Sn sample; (III) mapping of agglomerated phases at the Au/ Si interface and discrimination of 'chemical' and composition differences between the phases by comparing the Si 2p and Au 4f spectra in selected microspots.