SUPERESCA BEAMLINE

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The activity of the SuperESCA beamline during the last year is reviewed with particular emphasis on the study of the kinetics of surface reactions on metal surfaces: the high brilliance of ELETTRA and the characteristics of the SuperESCA beam line allow measuring high quality core level photoemission data in a very short time (a few seconds) from adsorbate species. XPS is used to follow in real time the dynamics of surface processes. Adsorption, desorption, dissociation and reaction of molecules with preadsobed layers have been studied obtaining information which could in the past only be inferred from experiments where it was possible to "freeze" the reaction to allow for data acquisition.