elemental analysis by x-ray fluorescence

one hierarchy of materials theory

an introduction to spectroscopy

electron spectroscopy and dispersion

interaction and emission

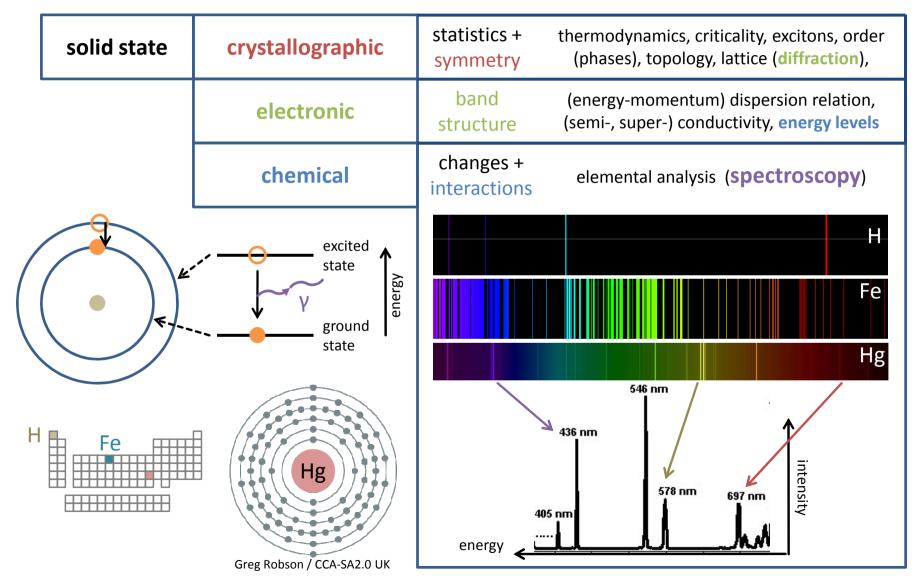
mapping

CAMTEC/AMF

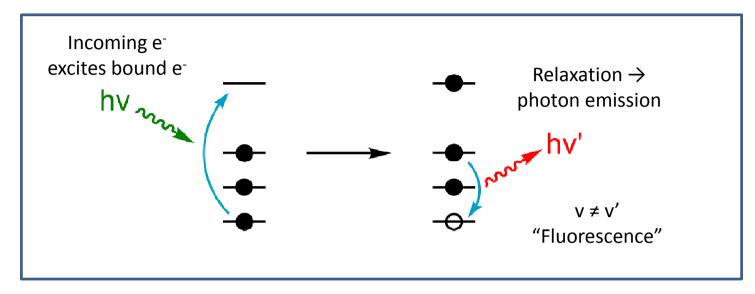
14 June 2010

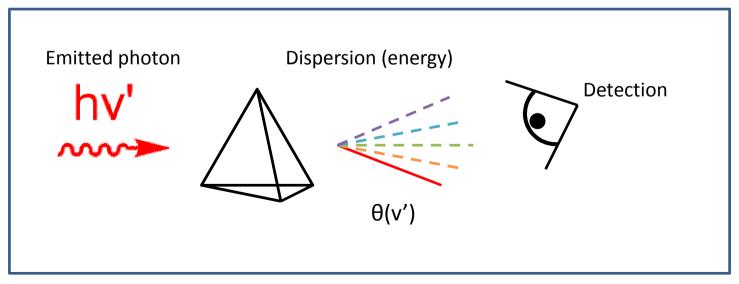
Joe Kolthammer

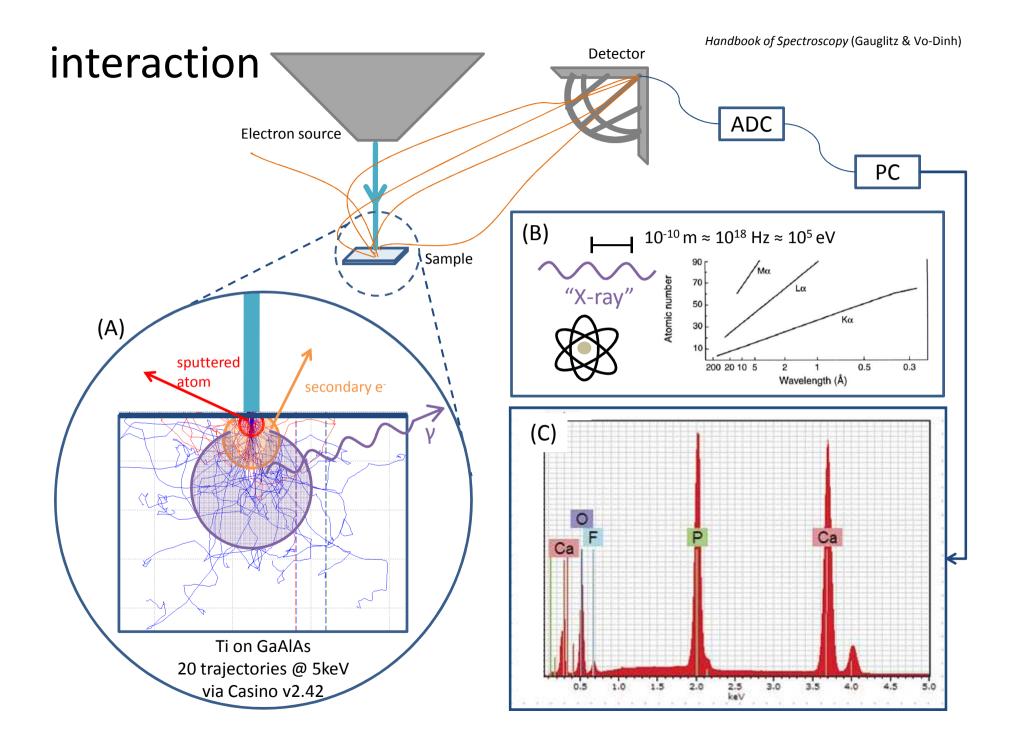
condensed matter



electron spectroscopy

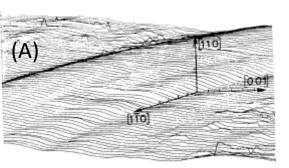






mapping

- (A) topography by STM
- (B) etymology of raster
- (C) elemental map of a mineral sample by EDX
- (D) elemental map of a circuit board by EDX



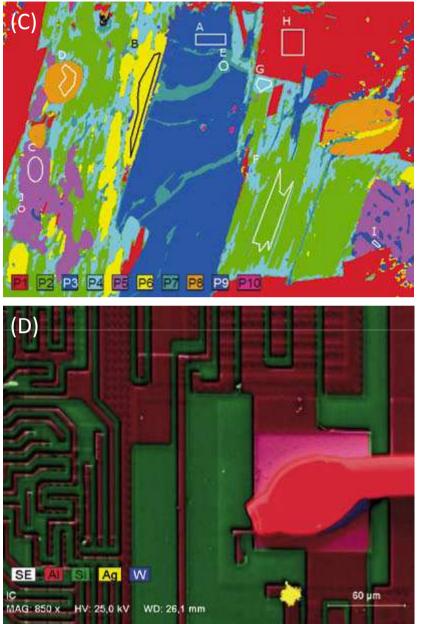
Binning, Rohrer, Gerber, Weibel PRL 49, 57 (1982)

RAS'TER, RAS'TRUS and -UM. An agricultural implement of a mixed character, between our *fork*, *rake*, and *hoe*, both as regards the form of the object and the manner in which it was used. It resembled the fork and rake, in so far that the head, which was made of iron (Cato, *R. R.* x. 3. xi. 4.), but very heavy (Virg. *Georg.*



i. 164.), contained two, three, or sometimes four prongs (quadridens, Cato, *ll. cc.*), set at intervals apart (Isidor. Orig. xx. 14. 6., a raritate dentium), and arranged, like the rake, transversely across the handle at right angles with it, not in direct continuation, like the common fork :

A Dictionary of Roman and Greek Antiquities (1890)



BRUKER QUANTAX promotional literature / Berlin Museum of Natural History