



Contribution ID: 58

Type: **Poster contribution**

Vacuum FT-IR Spectrometer: Research Tool at IR Beamlines of Electron Synchrotrons

Thursday, 5 July 2012 10:30 (1h 30m)

In the 1970's of the last century attempts to use the advantage of the bright and highly collimated e-synchrotron radiation (SR) not only in the short wavelength (UV, X-Ray) but also in the long wavelength ranges (typically 4000 to 10cm⁻¹) of the electromagnetic spectrum were unsuccessful. The theoretically expected advantage of the synchrotron radiation as bright but expensive IR source could not be demonstrated. Today the system parameters for the e-synchrotron beam generating radiation as well as for the optics design for guiding the synchrotron radiation to an IR beamline are known. Successful experiments providing new insights have lead to the adoption of synchrotron radiation as a brilliant radiation source for spectrometers and consequently an increase in the number of IR beamlines with spectrometers attached.

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Session Classification: Poster Session

Track Classification: Materials / Nanomaterials