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Norman Iwe

AG Clusters and Nanostructures

High Resolution Photoelectron Spectroscopy of Mass-Selected Silver Clusters

In this talk, investigations of metal clusters by photoelectron spectroscopy are presented. Highly resolved photoelectron spectra of mass selected silver cluster anions (Ag_3^- to Ag_{19}^-) were recorded using a hemispherical analyzer and a field-free time-of-flight spectrometer. Spectral features are assigned to known electronic transitions in the silver clusters for two different temperature regimes. Another aspect of the studies has been the dependency of the photoelectron spectra on the electron emission angle, indicating quantized angular momenta of the electrons in small silver clusters

Talk: English

Slides: English

Location: Institute of Physics, Albert-Einstein-Str. 24, HS1

