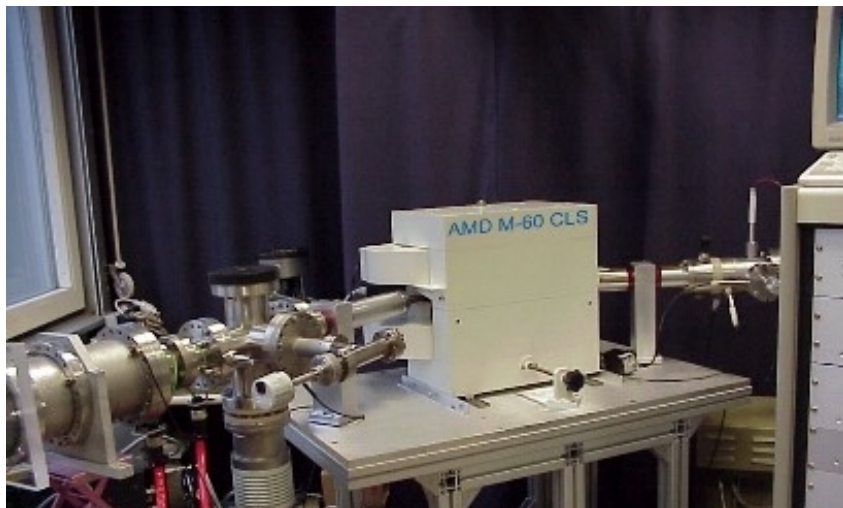


Magnetic Sector-Field Analyser for Ionized Cluster Beam Deposition

AMD M-60 CLS



High intensive plasma molecular beam device for mass selected deposition of cluster ions.

The AMD M-60 CLS offers **high transmission** at high masses at required resolution (advantage compared to quadrupole instruments) combined with small kinetic energy spread (advantage compared to time-of-flight systems).

Highlights are:

- ▶ Decelerated Cluster Ion Deposition
- ▶ Precise low deposition energy
- ▶ Constant accelerating voltage at pulsed ion production
- ▶ High transmission for high masses at required resolution

The instrument is installed at: Forschungszentrum Jülich GmbH, Institute of Solid State Research (IFF), D-52425 Jülich

AMD M-80 Mass Spectrometer

A magnetic sector analyser designed as a high transmission mass separator for high mass cluster ions. Cluster ions produced in a special plasma cluster ion source are accelerated and mass separated at high energies. An off-axis post acceleration detector operates in ion recording or ion transmitting mode. The floating analyzer allows ion production at ground potential and various cluster ion experiments after mass separation at high or low ion energies including soft landing for deposition purposes.

Key specifications:

Resolution: up to 1,000 (10% valley) at 3 keV ion energy

Mass Range: 10,000 dalton at 5 keV
50,000 dalton at 1 keV

Transmission: > 50% at resolution 300 and 3 keV

The instrument is installed at: University of Rostock, Physics Department, Molecule, Cluster and Thin Layer Research

The Innovators in Magnetic Sector Mass Spectrometry

Königsberger Straße 1 • D-27243 Harpstedt • Germany

Phone: +49-4244-1062 / Fax: +49-4244-8646

E-mail: amd.intectra@t-online.de

<http://www.amd-intectra.de>

