

NENIMF: IMS 3f

The IMS 3f is a small radius magnetic sector ion microscope which can be operated as a microprobe providing elemental abundance and isotope analyses of a very small volume at the surface of solid sample.

The IMS 3f model established at NENIMF includes:

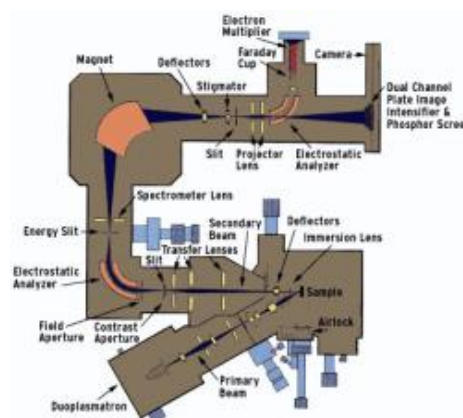
- Duoplasmatron ion source for generation of O^- ions;
- Mass resolution power ($M/\Delta M$) up to 8,000;
- SEM secondary ion counting system includes ETP Electron Multipliers and ECL fast counting system from Pulse-Count Technology Inc. and Faraday cup;
- Microchannel plate / Fluorescent screen detector for use as a secondary ion microscope;
- CCD camera mounted for secondary ion imaging;
- Improved peripheral electronics for better voltage stability

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View of the Cameca IMS 3f at NENIMF



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Schematic diagram of the IMS 3f

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