

# Auger Electron Spectroscopy (AES)



## Technical Parameters

### Auger Electron Spectrometer:

Physical Electronics PHI 670 Nanoprobe

**Ion source:** Ar<sup>+</sup> Ions (Energy 1-5 keV)

**Primary Beam:** focused electron beam (1 - 25 keV) – Field emitter

**Signal Detected:** Auger electrons,  
Secondary electrons

**Elements Detected:** Li-U; Chemical bonding information

**Lateral Resolution:** 100 nm

**Depth Resolution:** 2 – 3 nm (Profiling mode)

**Detection Limits:** 0.1-1at% sub-monolayer



## Application areas

- Surface analysis
- Particle analysis
- Small-area depth profiling
- Defect analysis
- Thin film composition analysis

## Contact person

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