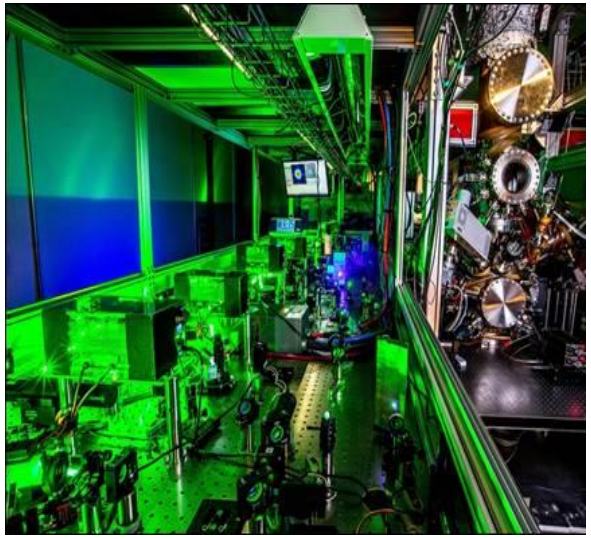
LLNL-NASA IN-SITU MICROANALYSIS FACILITY

PI: Peter Weber, Lawrence Livermore National Laboratory Website: NA

Description of the Facility

- NanoSIMS-XR with ultra-high brightness Cs^+ ion source yields <20 nm resolution with 2 pA and ~1 µm with 4 nA. Standard RF O^- source. Cold stage, glove box, vacuum transfer, full cryo workflow available
- Resonance ionization mass spectrometry (RIMS): High sensitivity isotopic analysis with elemental selectivity for in-situ analysis of solid material, ~1 µm spot-mode spatial resolution.
- Support equipment includes sample coaters (C, Au, Ir, Cr, Pt), light and electron microscopes, 7f-GEO and NanoSIMS 50

LLNL Cryo-NanoSIMS-XR



LLNL RIMS

How to use the Facility

- Send <1 page proposal, including project description, analyses desired, timing and availability
- Projects will be reviewed and scheduled on a rolling basis. NASA funded research will be given priority.
- Operating cost: There is no cost for astrobiology, cosmochemistry and planetary science, though users are required to pay travel costs for in-person use

Contact Information

- Location: Lawrence Livermore National Laboratory
- Address: 7000 East Ave., Livermore CA 94550
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