

Abstract Submitted
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The Far-IR Beamline at the Canadian Light Source DOMINIQUE R.T. APPADOO, Canadian Light Source, Inc. — The far-infrared (far-IR) beamline at the Canadian Light Source Inc. (CLSI) has been dedicated primarily to high-resolution spectroscopic studies of stable and unstable gas-phase molecules. The infrared radiation collected from a Bending Magnet is steered using long wavelength optics to a Brüker IFS125HR spectrometer which is able to record spectra at a resolution of 0.001 cm^{-1} . The far-IR beamline is presently being commissioned, and recent efforts in the optical alignment and noise reduction have rendered the beamline partially operational. The signal-to-noise ratio of data recorded with the synchrotron is better than that recorded with a thermal source by a factor of 8 around the $400 - 600\text{ cm}^{-1}$ region. As a result, we are presently accepting proposals for the next cycle (July - Dec 2007) for experiments which can be conducted in this spectral region.

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