

SPIRE imaging spectrometer workshop, May 14 - 16, 2007

Hosted by the University of Lethbridge

The workshop on the SPIRE imaging Fourier transform spectrometer covers technical discussions and an internal review of the data processing and calibration scheme on May 14, a thorough introduction of the SPIRE imaging FTS suitable for general astronomers on May 15, and demonstrations of currently available software related to the SPIRE imaging FTS in the early morning of May 16, 2007.

May 14, 2007, Monday

Detailed characterization: status & next steps

8:30	Welcome by Andrew Hakin, VP Academic at the University of Lethbridge	
8:30 – 9:30 TF	Band edges, phase, channel fringes, vignetting	60 min.
9:30 – 10:00 GL	Beam sizes as a function of wavelength	30 min.
10:00 – 10:15	-- COFFEE BREAK --	15 min.
10:15 – 11:15 TF	Spectral resolution, modulation efficiency, obliquity	60 min.
11:15 – 11:45 All	Prioritized list of next analysis steps	30 min.

FTS working group: Review of the spectrometer pipeline

core attendants: JPB, PD, TF, MG, TL, NL, DN, CO, EP, LS, CS, Bsch

11:45 – 12:45	Review of pipeline structure	60 min.
12:45 – 14:15	-- LUNCH BREAK --	90 min.
14:15 – 15:45	Review of pipeline modules	90 min.
15:45 – 16:00	-- COFFEE BREAK --	15 min.
16:00 – 17:30	Review of calibration scheme (current status, ground-based data, PV plan, routine operations plan)	90 min.

Parallel sessions

14:15 – 15:45	Pointing working group	90 min.
16:00 – 17:30	TBD (S/W Documentation? Ground Segment Definition? ...?)	90 min.

At 19:00 – 20:00, Matt Griffin will give a public talk on “Astronomical Observatories for the Next Decade and Beyond” at the Lethbridge Public Library, 810, 5th Avenue South.

May 15, 2007, Tuesday

Introduction

8:30 – 9:30	DN	Introduction to Fourier transform spectroscopy	60 min.
9:30 – 10:30	JPB	Overview of the SPIRE imaging FTS	60 min.
10:30 – 10:45		-- COFFEE BREAK --	15 min.
10:45 – 11:15	EP	SPIRE Spectrometer AOTs	30 min.
11:15 – 11:45	EP	Spectroscopy with Herschel	30 min.
11:45 – 13:15		-- LUNCH BREAK -- [ICC Management Group meets during lunch]	90 min.

Instrument characterization

13:15 – 14:15	MG	Sensitivity model	60 min.
14:15 – 15:15	JPB	Transmission & Signal to Noise Ratio	60 min.
15:15 – 15:30		-- COFFEE BREAK --	15 min.
15:30 – 16:00	BSch	Bolometer theory for SPIRE	30 min.
16:00 – 17:00	NL	Noise performance of the detector arrays	60 min.
17:00 – 17:45	JPB/PH/TF/LS	Telescope compensation	45 min.

At 19:00 there will be a BBQ at Fort Whoop-Up, which is located in the river valley, just before you'd cross Whoop-Up Drive (a car bridge that crosses the river and which is hard to overlook). It's a beautiful 10 minute walk from the Lethbridge Lodge towards North.

May 16, 2007, Wednesday

Software demonstrations

8:30 – 9:30	TF/CO	Demonstration of the data processing pipeline	60 min.
9:30 – 10:00	PD	Demonstration of the SPIRE spectrometer simulator	30 min.

-- END OF WORKSHOP --