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Herschel Calibration Workshop -- 18-20 January 2012

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Objectives

The main intent of this workshop is to concentrate on the calibration of Herschel spectrometers. A feedback on photometer issues from the previous workshop and cross-calibration will also be included.

It is expected that we will have both plenary sessions and smaller splinter groups dealing with very specific topics in detail.

The key purpose of the calibration workshop is to go into fine detail the current means of flux calibration of all three instruments (e.g., methods of source spectral flux extraction, detailed analysis of current models being used and means of improving calibrations to be even better).

The workshop is open to all calibration scientists working on the calibration of the three instruments plus a number of invited experts.

Program

SPEAKERS PLEASE NOTE -- leave some time for questions/discussion.

DAY ONE: Wednesday, 18 January 2012 (Plenary -- in room B3)

09:00 - 09:30 Introduction and Goals of the Meeting (Tony Marston -- [link to presentation](#))

09:30 - 10:15 SPIRE Spectrometer flux and wavelength calibration (Ed Polehampton)

10:15 - 10:45 COFFEE BREAK

10:45 - 11:40 SPIRE spectrometer calibrators (Ros Hopwood -- [link to presentation summarising FTS issues from Polehampton, Imhof and Hopwood](#))

11:40 - 11:50 PACS Spectrometer: overview on calibration (Ulrich Klaas -- [link to presentation](#))

11:50 - 12:20 PACS spectrometer wavelength calibration: methods (Helmut Feuchtgruber -- [link to presentation](#))

12:20 - 12:50 PACS spectrometer spatial calibration and beam efficiencies (Alessandra Contursi -- [link to PACS spectrometer calibration information](#))

12:50 - 13:30 PACS spectrometer flux calibration concept (abs flux cal scheme, normalized to tel. background) (Bart Vandenbussche and Pierre Royer -- [link to presentation](#))

13:30 - 14:30 LUNCH

14:30 - 14:55 PACS spectrometer flux calibration accuracies (reproducibility, linearity, comparison with photometer) (Bart Vandenbussche and Pierre Royer -- [link to presentation](#))

14:55 - 15:15 PACS spectrometer: pointing correction (Johan Olofsson -- [link to presentation](#))

15:15 - 15:35 PACS-S Spatial and Spectral Ghosts (Helmut Feuchtgruber)

15:35 - 16:05 PACS spectrometer unchopped data reduction concept (flux-cal, drift-correction, unchopped vs. chopped flux comparison) (Dario Fadda + Roland Vavrek -- [link to presentation](#))

16:05 - 16:30 COFFEE BREAK

16:30 - 17:00 HIFI flux and wavelength calibration: methods (Volker Ossenkopf -- [link to presentation](#))

17:00 - 17:30 HIFI flux and wavelength calibration: implementation (David Teyssier -- [link to presentation](#))

17:30 - 18:00 Continuum measurements in HIFI observations (Pat Morris -- [link to presentation](#))

18:00 - 18:30 KP User Feedback (Fabrice Herpin)

END OF DAY ONE

DAY TWO: Thursday 19 January 2012

Plenary session in B3:

08:45 - 09:00 Day 2 introduction and logistics (Tony Marston)

09:00 - 09:30 PACS-P flux calibration updates (Markus Nielbock -- [link to presentation](#))

09:30 - 10:00 PACS-P error maps and correlated noise calibration (Paola Popesso -- [link to presentation](#))

10:00 - 10:20 [MadMap](#) processing progress (Roberta Paladini -- [link to presentation](#))

10:20 - 10:50 COFFEE BREAK

10:50 - 11:15 New insights on Highpass Filtering/photoproject (Paola Popesso -- [link to presentation](#))

11:15 - 12:00 Planetary models updates (Raphael Moreno -- [link to presentation](#))

12:00 - 12:30 Asteroid model updates (Thomas Mueller -- [link to presentation](#))

12:30 - 12:40 Cross-calibration goals (Tony Marston -- [link to presentation](#))

12:40 - 13:00 PACS spectrometer error propagation and detectability (Pierre Royer -- [link to presentation](#))

13:00 - 13:20 PACS spectrometer [E2E](#) performance of AOTs (Roland Vavrek -- [link to presentation](#))

13:20 - 14:20 LUNCH

14:20 - 14:35 PACS-S red leak calibration (KUL/Elena Puga -- [link to presentation](#))

14:35 - 15:00 PACS-HIFI spectral line cross-calibration (Elena Puga -- [link to presentation](#))

15:00 - 15:30 SPIRE-HIFI spectral line cross-calibration (Peter Imhof)

15:30 - 16:00 Planetary model updates including SPIRE FTS measurement feedback (Glenn Orton -- [link to presentation](#))

16:00 - 16:30 COFFEE BREAK

16:30 - 18:00 Splinter session 1

- 1. Cross-calibration: spectrometry. Issues and priorities. (room B5 [link to presentation](#))
- 2. Calibrator models and further feedback from observations (room B3 [link to presentation](#))

END OF DAY TWO

DAY THREE: Friday 20 January

Plenary session in B3:

09:00 - 09:30 Day 3 introduction and logistics (Tony Marston)

09:30 - 10:00 SPIRE/Planck cross calibration status and plans for implementation (Bernhard Schulz/Luca Conversi -- [link to presentation](#))

10:00 - 10:30 Cross-calibration: GREAT calibration on SOFIA (Juergen Stutzki -- [link to presentation](#))

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 Report back from splinters and discussions

13:00 - Way ahead and priorities; workshop summary (Tony Marston -- [link to presentation](#))

13:30 - LUNCH AND END OF WORKSHOP

-- [AnthonyMarston](#) - 9 Mar 2012

Attachments

	Attachment	History	Action	Size	Date	Who	Comment
	CW_olofsson.pdf	r1	manage	1486.1 K	2012-03-09 - 10:55	AnthonyMarston	PACS-S pointing correction -- JO
	GREAT_HIFI_cross_calibration.pdf	r1	manage	2255.4 K	2012-03-09 - 09:46	AnthonyMarston	GREAT cross cal -- JS
	HCalWkShop-20120119_PACS-P_MN.pdf	r1	manage	3395.4 K	2012-01-23 - 15:16	MarkusNielbock	PACS Photometer Flux Calibration Update
	HIFI_CAL_CalWorkshop_ESAC_Jan2012_DT.pdf	r1	manage	2090.9 K	2012-02-07 - 10:33	DavidTeyssier	HIFI intensity and frequency calibration implementation
	Herschel_CalWS2_PACS_Spectrometer_Overview_UK.pdf	r1	manage	1018.2 K	2012-03-09 - 09:35	AnthonyMarston	PACS spec cal intro -- UK
	Herschel_CalWorkshop_Madrid2012_public.pdf	r1	manage	1367.8 K	2012-03-09 - 10:26	AnthonyMarston	Extended emission map comparisons - - RP
	Herschel_Calibration_Workshop_-_introduction.pdf	r1	manage	247.1 K	2012-03-09 - 09:02	AnthonyMarston	Workshop intro -- APM
	Herschel_Calibration_Workshop_-_summary.pdf	r1	manage	119.7 K	2012-03-09 - 10:22	AnthonyMarston	Cal workshop summary -- APM
	Herschel_Calibration_Workshop_-crosscal_goals.ppt	r1	manage	514.0 K	2012-03-09 - 09:39	AnthonyMarston	Herschel xcal goals -- APM
	Orton_Uranus_Neptune_calibration_models2012.ppt	r1	manage	5924.5 K	2012-03-09 - 09:41	AnthonyMarston	Uranus + Neptune models -- GO
	PACS-HIFI_EPu.pdf	r1	manage	530.0 K	2012-01-27 - 15:57	ElenaPuga	HIFI-PACS

	PACS_SPIRE_EPu.pdf	r1	manage	540.0 K	2012-01-27 - 15:58	ElenaPuga	SPIRE-PACS Spectral line cross comparison
	PACS_WaveCal_Update_Jan2012.pdf	r1	manage	7628.6 K	2012-03-09 - 09:19	AnthonyMarston	PACS wavelength calibration update -- HF
	Splinter1_Summary.pdf	r1	manage	38.0 K	2012-01-27 - 16:01	ElenaPuga	Splinter Spectrometers Cross Calibration: Issues and priorities
	XCal_CalWorkshopJan2012.pdf	r1	manage	520.8 K	2012-02-07 - 16:34	BernhardSchulz	
	error_map_cal_workshop_19_01_2012.pdf	r1	manage	4448.1 K	2012-03-09 - 09:49	AnthonyMarston	PACS error maps -- PP
	hifi-calibration-theory_VO.pdf	r1	manage	1178.3 K	2012-01-19 - 12:22	VolkerOssenkopf	HIFI calibration fundamentals, VO 18.01.2012
	hp_psf_cal_workshop_19_01_2012.pdf	r1	manage	6247.4 K	2012-03-09 - 09:49	AnthonyMarston	High pass filtering and phot project -- PP
	madrid2012_FTSrepeatability_SUMMARY.PDF	r1	manage	924.0 K	2012-03-09 - 12:57	AnthonyMarston	FTS overview - - RH
	madrid2012_rhopwood_FTScalibrators_v7.pdf	r1	manage	3853.1 K	2012-01-20 - 10:04	RosalindHopwood	SPIRE FTS Calibrators
	moreno_madrid11_planetmodels.pdf	r1	manage	851.6 K	2012-03-09 - 09:44	AnthonyMarston	Planetary models update -- RM
	planets_splinter.pdf	r1	manage	213.6 K	2012-03-09 - 11:35	AnthonyMarston	Cal models splinter summary -- RM
	tmueller_esac2012_asteroids.pdf	r1	manage	3141.0 K	2012-03-09 - 09:47	AnthonyMarston	Asteroids calibration update -- TM

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Topic revision: r36 - 2012-05-23 - [DavideRizzo](#)

