

Agenda for the third (fourth) SFIT4 Retrieval Workshop

November 4 – 6 2019

NCAR, Boulder CO

FL-0 Rm 2512

Workshop format:

The workshop will be held in the ACOM meeting room 2512 on the second floor of building FL-0 of the Foothills Lab of NCAR in Boulder. The room has one large round table, and a projector ideal for presentations, group discussions, and presenting examples from your laptop for discussion. We have only three days and believe they will be full. We have two goals for the meeting: 1. To present detailed information on the theory of SFIT and running it and 2. Discuss and answer specific questions and answers attendees bring. The agenda tries to reflect these goals.

Notes:

****Have the latest working version of SFIT4 and the latest linelist.**** Go here for the:

<https://wiki.ucar.edu/display/sfit4/November+2018+Pre-Release>

Also see/get there the latest linelist with ATM 20190910 !

When you arrive you may have to go to the main entrance at bldg. FL-2 and ask the receptionist to contact one of us below.

Contacts:

Jim Hannigan, office FL-0, Rm 3588, 303-497-1853, cell 720 318 8776

Ivan Ortega, office FL-0 Rm 3564, 303-497-1861, cell 303-217-1219

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Monday, 4 November

08:00	J Hannigan, B Slagel	Doors open, Attendee Logistics
08:30	J Hannigan	Welcome, Meeting Logistics, Introduction
09:15	M Palm	SFIT4 Theory and Overview
10:30		Break
10:50	J Hannigan	Spectroscopy
		i. Linelists
		ii. Isotopes
		iii. TIPS
11:50	M Palm	Forward & Retrieval Parameters
12:50		Lunch
14:00	J Hannigan	Band Parameters
14:30	All	Open Discussion, Questions, Examples
15:20		Break
15:40	All	Open Discussion, Questions, Examples
18:00		Adjourn for Day

Tuesday, 5 November

08:30	I Ortega	Python Tools for Batch running SFIT
		<ul style="list-style-type: none">i. Database creationii. File system structureiii. Required input data, files formatsiv. Spectra preparationv. Fitting and re-entering H2O as inputvi. Running layer 0, 1
10:00	B Langerock	Network AC/AQ
		<ul style="list-style-type: none">i. Procedures,ii. Criteria
10:30		Break
10:50	B Langerock	Implementing Uncertainty Calculations
11:50	M Chou	Channeling Issues in SFIT4
12:10	M Palm	K _b Parameters
12:40		Lunch
13:50	All	Open Discussion, Questions, Examples
15:00		Break
15:20	All	Open Discussion, Questions, Examples
18:00		Adjourn for Day

Wednesday, 6 November

08:30	M Palm	Issues Pertaining to Low resolution spectra
		<ul style="list-style-type: none">i. Wide spectral bandsii. Introduction to Emission spectra
09:30		Break
09:50	I Ortega	Python Tools for Batch running SFIT cont.
		<ul style="list-style-type: none">i. Plotting resultsii. HDF creationiii. Latest Updatesiv. Conversion to Python 3
10:40	M Palm	Interpreting and Using Averaging Kernels
11:10	J Hannigan	Diagnostics, Techniques
11:50	All	Discussion of Morning Topics
12:30		Lunch
13:15	All	Open Discussion, Questions, Examples
15:00		Break
15:20	All	Open Discussion, Questions, Examples
18:00		Workshop Adjourn
19:00	All	Dinner at a nearby brewpub