

# RHESSI DATA ANALYSIS WORKSHOP

## UPDATED AGENDA

### Monday October 18, 2004 – Fundamentals of RHESSI Imaging and Spectroscopy

8:43	Bus arrives at SSL	
9:00	<b>Welcome / Logistics / Introductions</b>	Lin
	<b>Overview of RHESSI Science</b>	Lin
	<b>Introduction to RHESSI hardware &amp; flight operations</b>	Dennis
	<b>Introduction to RHESSI data handling</b>	McTiernan
10:45	BREAK	
	<b>Introduction to RHESSI data analysis</b>	Tolbert
	<b>Hands on exercise</b> – Set up software, identify flare(s), get quick-look light curves	all
12:45	ON-SITE LUNCH	
1:45	<b>Introduction to Spectroscopy</b>	Schwartz
	<b>Hands on exercise</b> – Make an x-ray spectrum for a specified flare	all
3:30	BREAK	
	<b>Introduction to Imaging</b>	Hurford
	<b>Hands on exercise</b> – Make an image for a specified flare/energy/time	all
	<b>Demonstration of an end-to-end analysis</b>	Dennis
	<b>Discussion</b>	all
6:15	ADJOURN	
6:30	Bus departs SSL	

## Tuesday October 19 – Advanced Topics in RHESSI Spectroscopy and Imaging

8:43	Bus arrives SSL	
9:00	<b>Logistics</b>	tbd
	<b>Spectroscopy – Physical effects</b>	Smith
	<b>Discussion</b>	all
10:30	BREAK	
	<b>Spectroscopy - software</b>	Schwartz / Tolbert
	<b>Hands-on exercise</b>	all
12:45	ON-SITE LUNCH	
1:45	<b>Topics in Imaging</b>	Hurford
	<b>Imaging Algorithms</b>	
	<b>CLEAN</b>	Krucker
	<b>MEM</b>	Schmahl
	<b>PIXONS</b>	Metcalf
	<b>Forward Fit</b>	Aschwanden
4:05	<b>BREAK</b>	
	<b>Hands-on exercise</b>	all
	<b>Discussion</b>	all
5:30	ADJOURN	
5:45	Bus departs SSL	

## Wednesday October 20 – Imaging Spectroscopy

8:43	Bus arrives SSL	
9:00	<b>Image Cubes and Imaging Spectroscopy</b>	Krucker / Csillaghy
	<b>One-on-one sessions</b>	
	<b>Reading and writing FITS files</b>	Tolbert
	<b>Eventlist files</b>	Csillaghy
12:30	LUNCH	
1:45	<b>End-to-end Demonstration</b>	Dennis
	<b>One-on-one sessions</b>	
	<b>Overlaying images, lightcurves, spectra, spectrograms</b>	Krucker
	<b>Discussion</b>	all
5:30	ADJOURN	
5:45	Bus departs SSL	

## Thursday October 21 - Handling Difficult Cases

8:43	Bus arrives SSL	
9:00	<b>Overview of Diagnostic resources</b>	Smith
	<b>Artifacts in light curves, spectra and images</b>	Dennis/Smith/Hurford
	<b>One-on-one sessions</b>	all
	<b>Handling special cases</b>	tbd
12:30	LUNCH	
1:45	<b>Scripting techniques for automating tasks</b>	Krucker
	<b>One-on-one sessions</b>	
	<b>Simulations as a tool for error analysis</b>	McTiernan
	<b>Discussion</b>	all
5:30	ADJOURN / RECEPTION?	
6:30	Bus departs SSL	

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## Friday October 22

8:43	Bus arrives SSL	
9:00	<b>Using intermediate data products</b>	Schwartz
	<b>Other RHESSI Applications</b>	Smith/Fivian/tbd
	<b>One-on-one sessions</b>	
	<b>Other topics as requested</b>	tbd
	<b>Strategies for analyzing data remotely</b>	Tolbert
	<b>Future software developments</b>	Schmahl
	<b>Closing Discussion</b>	all
12:15	ADJOURN	
12:30	Bus departs SSL	