

Title: The EHT Wiki

Date: Nov 14, 2014 11:35 AM

URL: <http://pirsa.org/14110112>

Abstract: The EHT Wiki is the primary vehicle for communication with the project. The site contains pages on science investigations, algorithmic development, new hardware, and staging information for observations and data processing. This talk will introduce the Wiki and walk through its various sections to show how it is used to help organize the EHT.

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The EHT 2014 meeting will be held at Perimeter Institute in Waterloo, ON, Canada during the week of 10-14 Nov 2014.

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EventHorizonTelescope

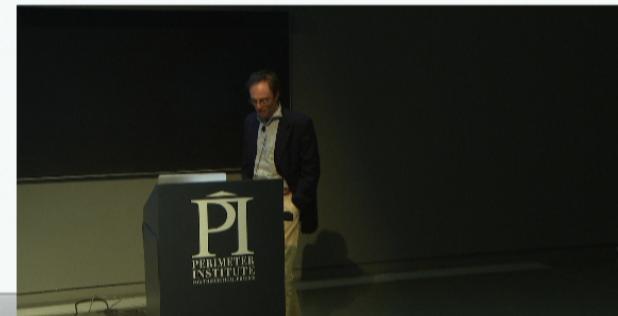


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EventHorizonTelescope

EventHorizonTelescope Home

EventHorizonTelescope > Event Horizon Telescope Home

Welcome to the Event Horizon Telescope

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EventHorizonTelescope > Event Horizon Telescope Home > Active Science

Active Science

Known ongoing scientific projects with primary contacts:

- [1mm VLBI imaging of BLLAC after a major Outburst](#) (Thomas Krichbaum + ...)
- [3C 279 structure variability, possibly include other wavelength data](#) (Rusen Lu +)
- [Astrometry of Flares Near Sgr A* with Polarimetric VLBI](#) (Michael Johnson)
- [Brightness temperature and spectral properties of the jet launching regions](#) (Thomas Krichbaum+...)
- [Global observations of BL Lac and other quasar sources](#) (Bonn + ...)
- [Image reconstruction with the sparse modeling](#) (Mareki Honma, Kazunori Akiyama)
- [M87 connections with 2012 TeV enhancement](#) (Kazunori Akiyama, Rusen Lu)
- [M87 Visibility Modeling](#) (Avery Broderick)
- [Multi-year M87 sizes](#) (Rusen Lu)
- [NRAO 530 structure after the GeV flare in November 2010, possibly include MWL data](#) (Kazunori Akiyama, Rusen Lu+)
- [Ordered Magnetic Fields Near Sgr A*](#) (Michael Johnson)
- [Polarimetry](#) (Michael Johnson, Vincent Fish)
- [Sgr A* closure phases](#) (Vincent Fish, Avery Broderick)

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Go to "http://eht-wiki.haystack.mit.edu/Event_Horizon_Telescope_Home/Active_Science/1mm_VLBI_imaging_of_BLLAC_after_a_major_Outburst"

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Astrometry of Flares Near Sgr A* with Polarimetric VLBI – EventHorizonTelescope

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Astrometry of Flares Near Sgr A* with Polarimetric VLBI

We have developed a technique that uses fractional polarization measurements to perform relative astrometry of compact flaring structures near Sgr A* referencing them to the quiescent emission centroid. A [paper](#) outlining these ideas has been submitted to ApJ.

Continued work on this project falls into several categories:

1. Application to 2013 EHT data
2. Extended theoretical studies to probe the spacetime near Sgr A* or more complex dynamical configurations.

Please contact Michael Johnson (mjohnson@cfa.harvard.edu) if you are interested in joining these efforts.

Tags: ([Edit tags](#))
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Files (1)

File	Size	Date	Attached by
Polarimetric_Astrometry.pdf Polarimetric Astrometry Manuscript (ApJ, submitted)			

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Astrometry of Flares Near Sgr A* with Polarimetric VLBI – EventHorizonTelescope

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Tags: ([Edit tags](#))
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Files (1)

File	Size	Date	Attached by
Polarimetric_Astrometry.pdf Polarimetric Astrometry Manuscript (ApJ, submitted)			

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M87 connections with 2012 TeV enhancement - EventHorizonTelescope

eht-wiki.haystack.mit.edu/Event_Horizon_Telescope/Home/Active_Science/M87_connections_with_2012_TeV_enhancement

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Multi-year M87 sizes
NRAO 530 in 2011/2...
Ordered Magnetic Fi...
Polarimetry
Sgr A* Closure Phas...

perpendicular to the long baselines between Hawaii and the US mainland.

2. Circular Gaussian fits to the visibility amplitudes on VLBI baselines agree with values obtained by [Doeleman et al. 2012](#). We find no evidence of significant changes in ISCO-scale structure between 2009 and 2012 observations.

Data Memo

1. The first memo (October 10th, 2013; [data memo v1.pdf](#))
2. The supplementary memo on amplitude calibrations (July 7th, 2014; [memo_M87_ampcal.pdf](#))

Science Cases

1. **Physical structure of 1.3 mm emission:** are newly detected closure phases consistent with models of [Broderick & Loeb \(2009\)](#), [Dexter et al. \(2012\)](#), [Avery's force-free jet model](#), a jet model developed in ASIAA and other models? More generally, what can we state on physical structure our data?
2. **Time variation in the ISCO-scale structure:** Are our results consistent with results of [Dexter et al. \(2012\)](#) predicting the disc variability drive turbulence on year time-scales? No changes in current VLBI data might be explained by the lack of uv-coverages or baseline length to detect variations in ISCO-scale structure. This data also could be used for [the science case proposed by Keiichi Asada](#).
3. **Relation with very weak TeV enhancement around 2012 observations:** 2012 observations were carried out in the middle of very weak TeV reported in [Beilicke & VERITAS Collaboration \(2012\)](#). We could discuss mechanism of elevation in underlying TeV flux using our 2012 data with c 2009 EHT data (there was no VHE flare around 2009 observations) and other low frequency data [Hada et al. \(2014\)](#).

Interpretation and draft for publications

Kazunori Akiyama, Ru-sen Lu, and Vincent Fish et al. are now preparing the paper draft mainly discussing issues on science cases 1 & 3. We note that interpretations described in the following drafts are not yet the final version (springboard for discussion), and can be flexibly changed depending on discussions with you. We are very welcome if you can join in scientific discussions on following drafts.

1. The first version (Updated on August 27, 2014; [manuscript.v1.7.pdf](#))

References for 2012 TeV enhancements

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M87 connections with 2012 TeV enhancement - EventHorizonTelescope

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Contact Person: Kazunori Akiyama (kazunori.akiyama@nao.ac.jp), Ru-sen Lu (rslu@haystack.mit.edu) and Vincent Fish (vfish@haystack.mit.edu)

Introduction:

EHT observations in March 2012 was eventually hold in just middle of the weak and long TeV enhancement detected with VERITAS.

Here is the summary of 2012 data;

1. we have acquired 1.3 mm VLBI interferometric phase information on M87 through measurement of closure phase on the triangle of long baselines measured closure phases are consistent with 0 degree, suggesting that the compact structure on scales of a few Schwarzschild radii is symmetric a perpendicular to the long baselines between Hawaii and the US mainland.
2. Circular Gaussian fits to the visibility amplitudes on VLBI baselines agree with values obtained by [Doeleman et al. 2012](#). We find no evidence of significant changes in ISCO-scale structure between 2009 and 2012 observations

Data Memo

1. The first memo (October 10th, 2013; [data memo v1.pdf](#))
2. The supplementary memo on amplitude calibrations (July 7th, 2014; [memo_M87_ampcal.pdf](#))

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1. **Physical structure of 1.3 mm emission:** are newly detected closure phases consistent with models of [Broderick & Loeb \(2009\)](#), [Dexter et al. \(2012\)](#), [Avery's force-free jet model](#), a jet model developed in ASIAA and other models? M
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Sgr A* Closure Phases – EventHorizonTelescope

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Sgr A* Closure Phases – EventHorizonTelescope

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Data

Data files are linked below. These data are not yet public and not yet finalized. Please contact Vincent Fish (vfish@haystack.mit.edu) if you intend to files or if you have any questions about the data.

Interpretation

The memo Probably Not a Jet: Toy Model of Closure Phases from a Sgr A* Double Source (<http://eht-wiki.haystack.mit.edu/@ap...phase-test.pdf>) ma that our observed closure phases are not very consistent with a model of the millimeter emission coming from a jet viewed perpendicular to the line of s

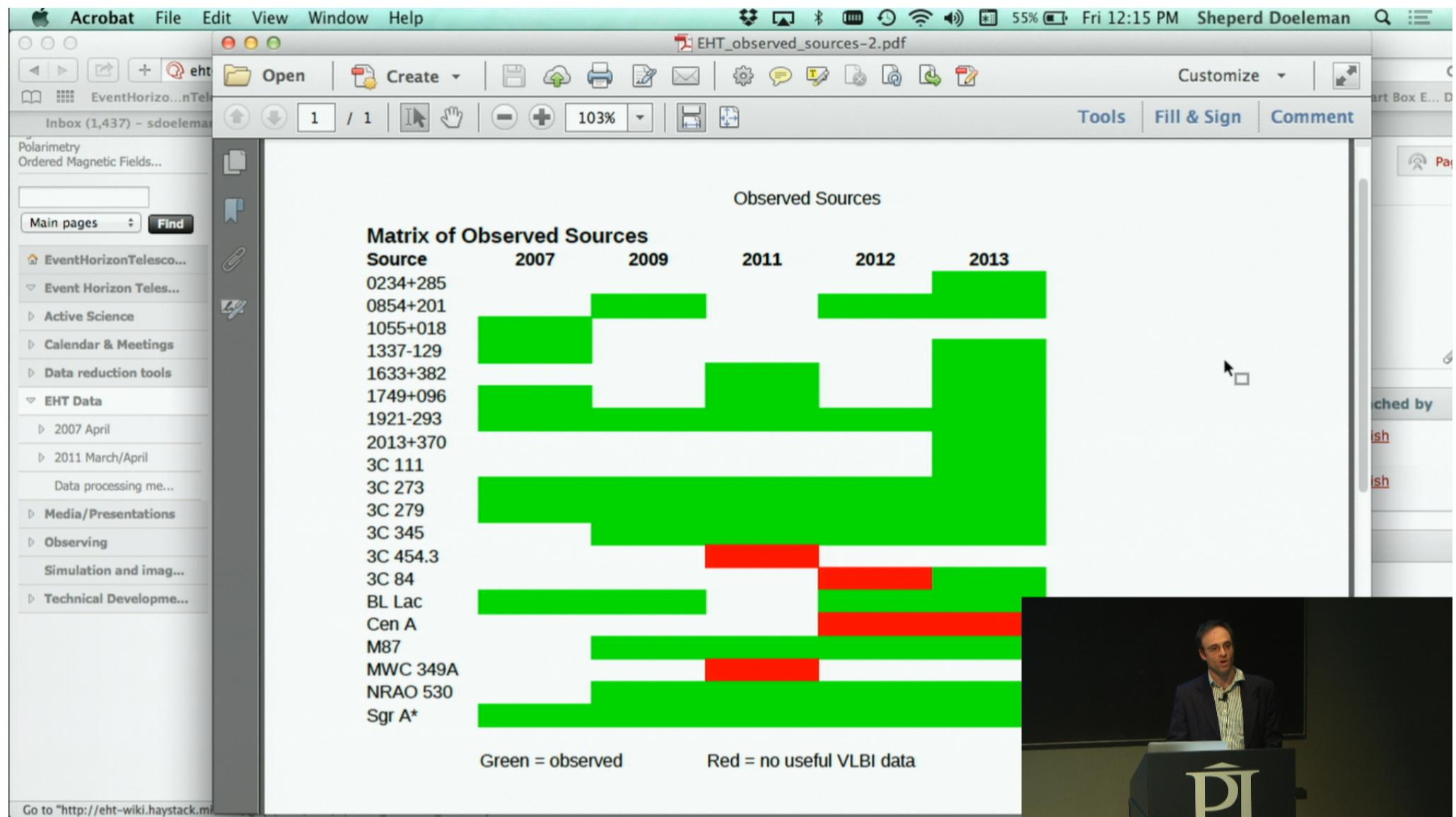
The memo [First Analysis of Closure Phase Data Set in the Context of RIAFs](#) describes the first attempts to simultaneously model the closure phase ar visibility magnitude data sets in terms of the RIAF models described in Broderick, Fish, Doelean, and Loeb (2011). A broad consistency is found betw two data sets within the RIAF model family for the majority of closure phase data epochs, producing substantially improved parameter estimates. Howe striking exception is day 94 of 2011, corresponding to the only day with a net negative closure phase, which yields significantly different parameter esti suggesting the presence of short-timescale structural variability. Simple attempts to model the structural variations are also presented, finding that bot and jet variability are easily capable of reproducing the low closure phases observed on that day.

Opportunities for collaboration

Items of high priority for this working group include

- Interpreting the main result of a nonzero closure phase. This will likely include parameter es around Sgr A*. Can we strengthen the case for dynamical connections between the Galactic center and the intergalactic medium?
- Determining characteristics of Sgr A* variability. There are enough data points to make a strong case for variability, but it is not yet clear to what extent we can separate the effects of (slow) interday variability from the effects of (fast) interepoch variability due to the motion of the source. Some statistical work may be needed to understand the context of various models (e.g., GRMHD simulations of aligned and tilted accretion disks).
- Determining whether there are any other interesting conclusions that can be drawn from the data.
- Deciding on the optimal statistical treatment of these data along with a pared-down, clearer model.





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Observing
2013 March
Calibration
CARMA
Correlation
JCMT
Schedule
SMA
SMT

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Files (10)

File	Size	Date	Attached by
1mm-freq-b.dat Frequency catalog	2.51 kB	08:50, 5 Dec 2013	vfish
1mm-locations-b.dat Locations catalog	2.93 kB	08:50, 5 Dec 2013	vfish
1mm-stations-b.dat Stations catalog	4.83 kB	08:50, 5 Dec 2013	vfish
a25gl.vex unedited vex file for 25 March	46.38 kB	08:54, 5 Dec 2013	vfish
b23gl.vex unedited vex file for 23 March	87.56 kB	08:54, 5 Dec 2013	vfish
c22gl.vex unedited vex file for 22 March	85.79 kB	08:54, 5 Dec 2013	vfish
combined-schedule.key Combined SCHEd keyin file for all days	54.13 kB	08:52, 5 Dec 2013	vfish
d21us.vex unedited vex file for 21 March			
g26us.vex unedited vex file for 26 March			
new27.vex unedited vex file for 27 march			

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EventHorizonTelescope > LMT Receiver Group

LMT Receiver Group

This is for the LMT Receiver Group

Only the LMT Receiver Group had read/write access to this page and its subpages.

Please let me know if you have any problems,

Jason

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Files (7)

File

[10-mRxControl208RevC.pdf](#)
CARMA SIS CAN module wiring diagram



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10-m Receiver Control CAN Module

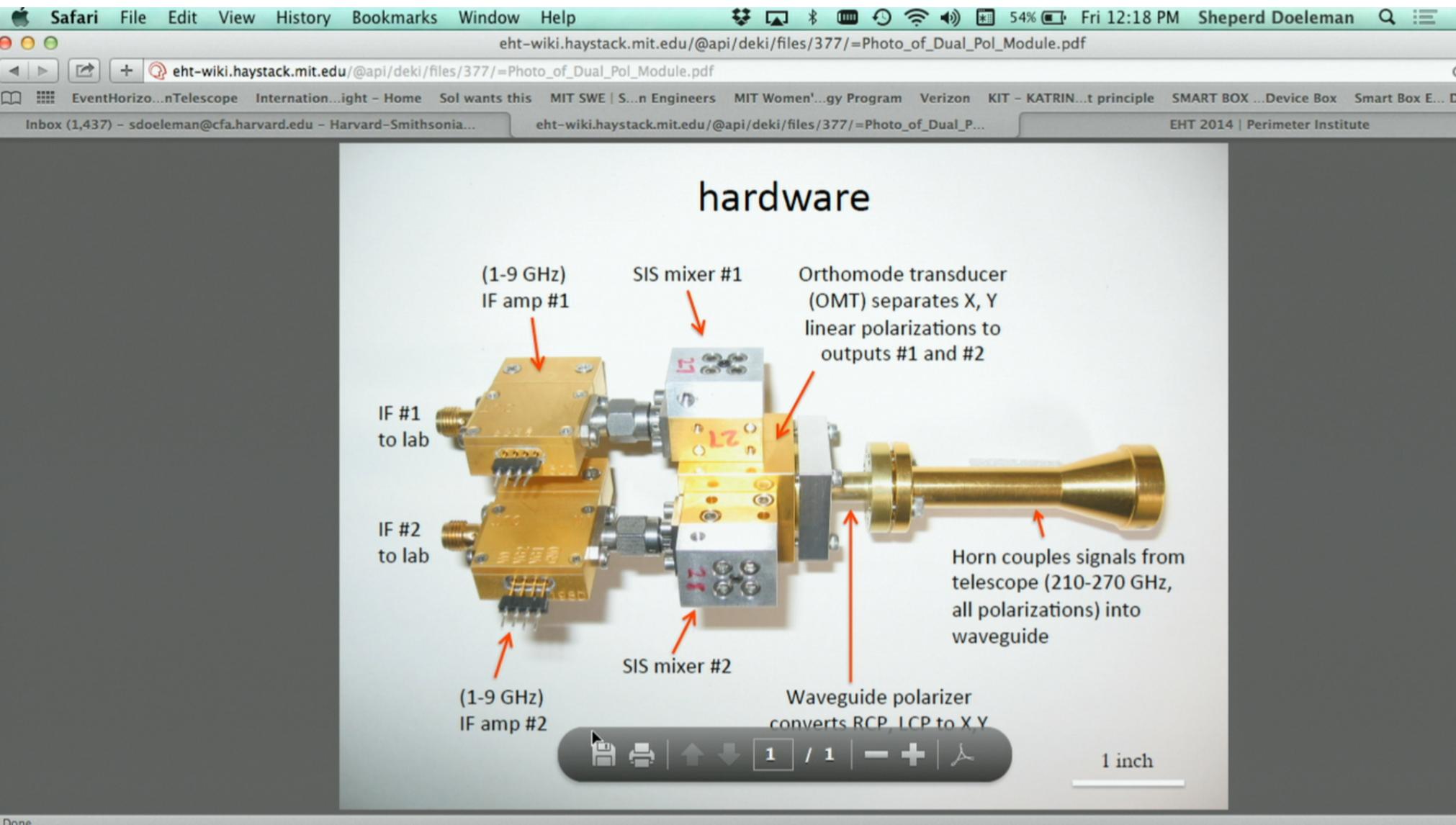
PHYSICAL MODE SHEET NUMBER	SCHEMATIC PAGE NAME/DESCRIPTION
1	Cover page
2	Graphical block diagram
3	Hierarchy Map
4	Top Level - Phycore FPGA Interface
5	Top Level - Customized board I/O
6	CAN and RS-232 Connectors
7	Phycore Module
8	System controller
9	I-Wire devices
10	FPGA Configuration
11	FPGA Part A - Phycore Interface
12	SPI devices and connectors
13	Power
14	FPGA Part B - Customized board I/O
15	Voltage References
16	BBB Bias ADCs
17	BBB Bias DAC
18	HEMT bias
19	12-bit ADC
20	Zaber Control (RS-232)

DATE	REVISION HISTORY
Sep 30, 2004	Design started
Nov 01, 2004	Schematic completed - ready for review
Jan 04, 2005	PCB Layout Complete
Jan 04, 2005	Design uploaded to Advanced Circuits
Apr 07, 2005	PCB Revised (Rev B)
Apr 12, 2005	Design uploaded to Advanced Circuits
Jun 12, 2005	PCB Revised (Rev C)
Jun 13, 2005	Design uploaded to Advanced Circuits

Modifications P18
(JWL 15-Jan-2008)

Done

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EventHorizonTelescope > Event Horizon Telescope Home > Calendar & Meetings

Calendar & Meetings

And meeting minutes and upcoming schedule

Events from one or more calendars could not be shown here because you do not have the permission to view them.

Today November 2014 Print Week Month Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	Nov 1
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9	10	11	12	13	14	15

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Teleconferences

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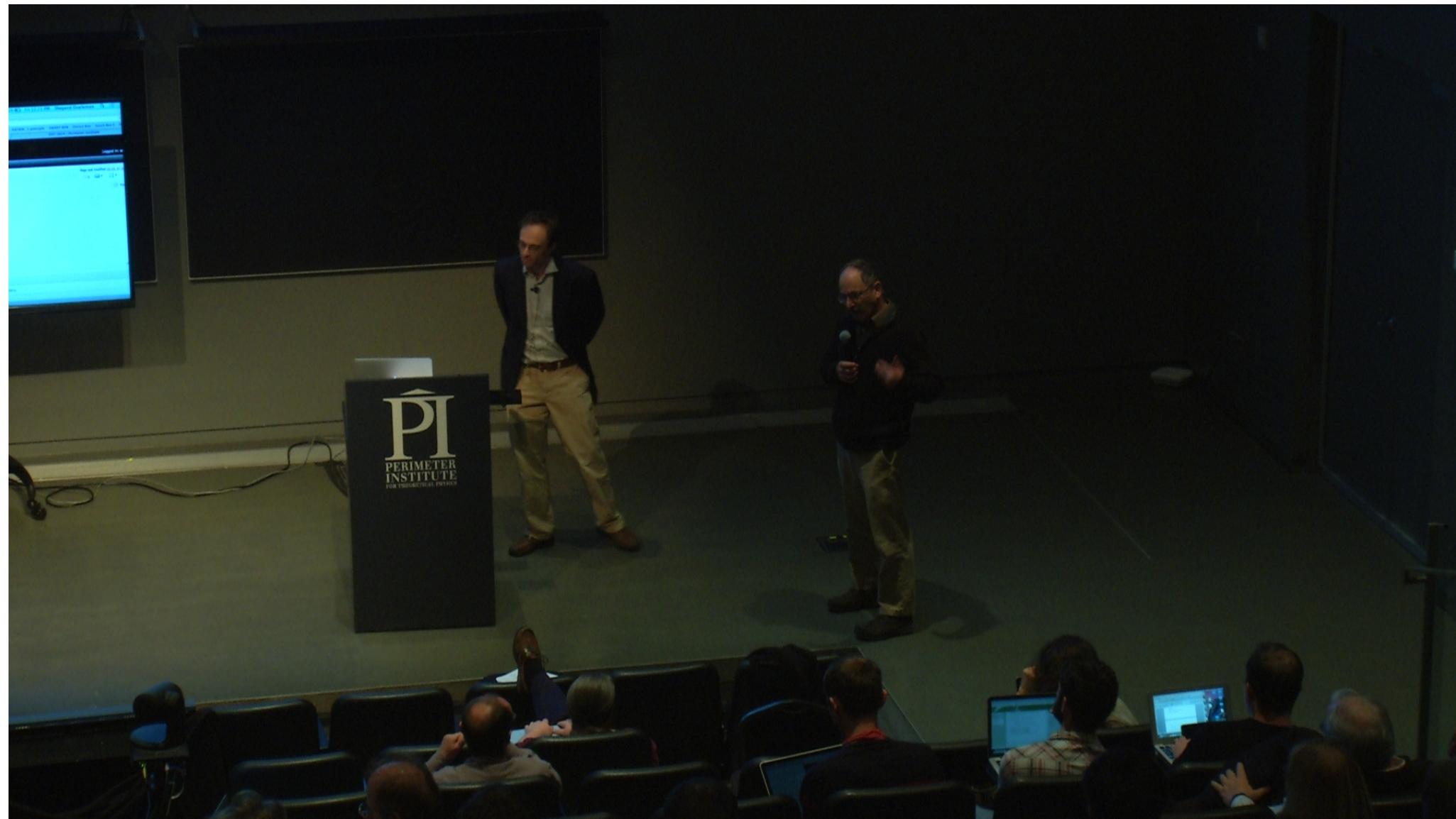
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M87 connections with 2012 TeV enhancement - EventHorizonTelescope

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1. The first version (Updated on August 27, 2014; [manuscript.v1.7.pdf](#))

References for 2012 TeV enhancements

1. VERITAS paper reporting the detection of this enhancement: [Beilicke & VERITAS Collaboration 2012, AIPC, 1505, 586](#)
2. MWL paper from 7 mm to GeV: [Hada et al. 2014, ApJ, 788, 165](#)

Tags: ([Edit tags](#))

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Files (3)

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File		Size	Date	Attached by	
data_memo_v1.pdf	No description	1242.53 kB	12:40, 26 Jun 2014	Kazunori Akiyama	
manuscript.v1.7.pdf	No description	696.08 kB	16:35, 27 Aug 2014	Kazunori Akiyama	
memo_M87_ampcal.pdf	No description	616.08 kB	09:25, 7 Jul 2014	Kazunori Akiyama	

Images 0

No images to display in the gallery.

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