

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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EventHorizonTelescope - EventHorizonTelescope

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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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Event Horizon Telescope Home



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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.

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Polarimetric Astrometry.pdf Polarimetric Astrometry Manuscript (ApJ, submitted)			

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Polarimetric_Astrometry.pdf Polarimetric Astrometry Manuscript (ApJ, submitted)			

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M87 connections with 2012 TeV enhancement – EventHorizonTelescope

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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 of 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 driven by 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 enhancement reported in [Beilicke & VERITUS Collaboration \(2012\)](#). We could discuss mechanism of elevation in underlying TeV flux using our 2012 data with our 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 the 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 observatio

Data Memo

1. The first memo (October 10th, 2013; [data memo v1.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 our data?
2. **Time variation in the ISCO-scale structure:** Are our results consistent with results of [De](#) turbulence on year time-scales? No changes in current VLBI data might be explained by the ISCO-scale structure. This data also could be used for [the science case proposed by Keiichi A](#)
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Go to "http://eht-wiki.haystack.mit.edu/Event_Horizon_Telescope_Home/Active_Science/M87_Visibility_Modeling"

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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 use these 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) (<http://eht-wiki.haystack.mit.edu/@ap...phase-test.pdf>) makes the case 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 sight.

The memo [First Analysis of Closure Phase Data Set in the Context of RIAFs](#) describes the first attempts to simultaneously model the closure phase and visibility magnitude data sets in terms of the RIAF models described in Broderick, Fish, Doeleman, and Loeb (2011). A broad consistency is found between the two data sets within the RIAF model family for the majority of closure phase data epochs, producing substantially improved parameter estimates. However, a striking exception is day 94 of 2011, corresponding to the only day with a net negative closure phase, which yields significantly different parameter estimates suggesting the presence of short-timescale structural variability. Simple attempts to model the structural variations are also presented, finding that both jet variability and accretion disk 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 estimation for the geometry of the emission region around Sgr A*. Can we strengthen the case for dynamical connections between the Galactic center and the inner disk?
- Determining characteristics of Sgr A* variability. There are enough data points to make a statistical case for variability, but it is not yet clear to what extent we can separate the effects of (slow) interday variability from the closure phase due to changing projected baseline orientations. Some statistical work may be needed to distinguish between the two in 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 presentation.



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EHT_observed_sources-2.pdf

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Observed Sources

Matrix of Observed Sources

Source	2007	2009	2011	2012	2013
0234+285	Green				Green
0854+201		Green		Green	Green
1055+018	Green				
1337-129					Green
1633+382			Green		
1749+096	Green				
1921-293	Green	Green			
2013+370					Green
3C 111					Green
3C 273	Green	Green	Green	Green	Green
3C 279	Green	Green	Green	Green	Green
3C 345		Green	Green	Green	Green
3C 454.3			Red		
3C 84				Red	Green
BL Lac	Green	Green		Green	Green
Cen A				Red	Red
M87		Green	Green	Green	Green
MWC 349A			Red		
NRAO 530		Green	Green	Green	Green
Sgr A*	Green	Green	Green	Green	Green

Green = observed Red = no useful VLBI data

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Observing
2013 March
Calibration
CARMA
Correlation
JCMT
Schedule
SMA
SMT

Tags: (Edit tags)
No tags

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			
q26us.vex unedited vex file for 26 March			
new27.vex unedited vex file for 27 march			

Images 0



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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



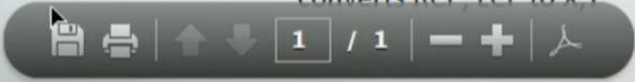
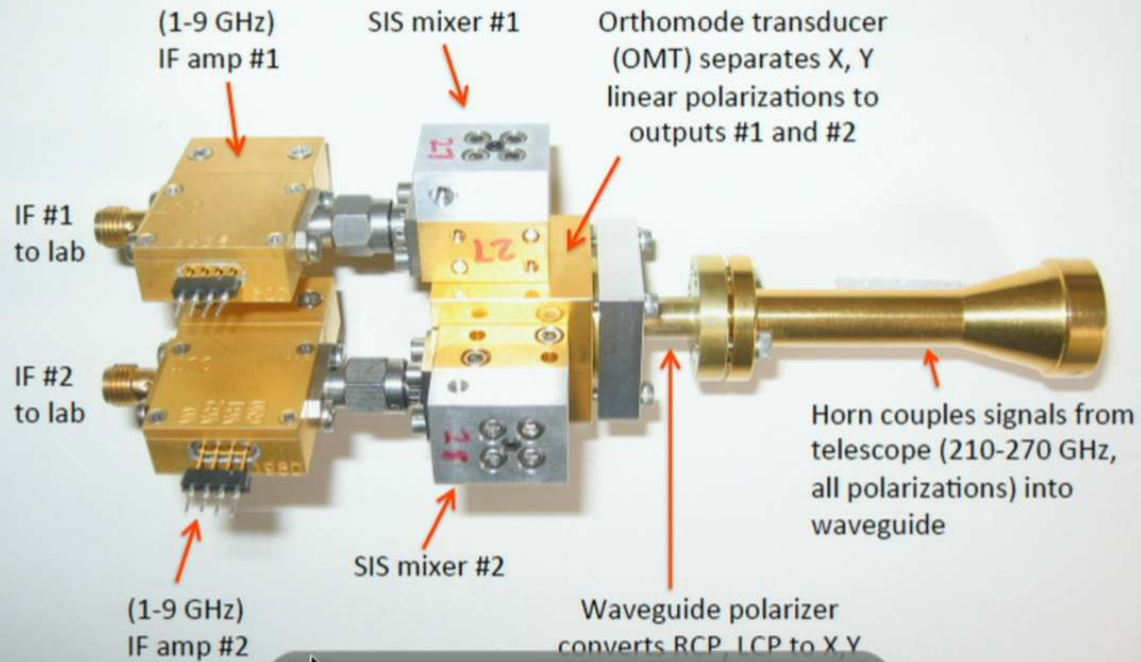
10-m Receiver Control CAN Module

PHYSICAL MODE SHEET NUMBER	SCHEMATIC PAGE NAME/DESCRIPTION	DATE	REVISION HISTORY
1	Cover page	Sept 30, 2004	Design started
2	Graphical block diagram	Nov 01, 2004	Schematic completed - ready for review
3	Hierarchy Map	Jan 04, 2004	PCB Layout Complete
4	Top Level - Phycore FPGA Interface	Jan 04, 2005	Design uploaded to Advanced Circuits
5	Top Level - Customized board I/O	Apr 07, 2005	PCB Revised (Rev B)
6	CAN and RS-232 Connectors	Apr 12, 2005	Design uploaded to Advanced Circuits
7	Phycore Module	Jun 12, 2005	PCB Revised (Rev C)
8	System controller	Jun 13, 2005	Design uploaded to Advanced Circuits
9	1-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	888 Bias ADCs		
17	888 Bias DAC		
18	HEMT Bias		
19	12-bit ADC		
20	Zaker Control (RS-232)		

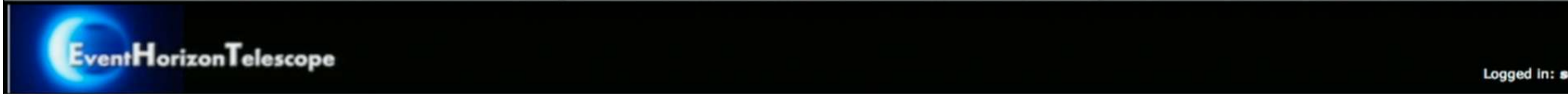
Modifications P18
(JWL 15-Jan-2008)



hardware



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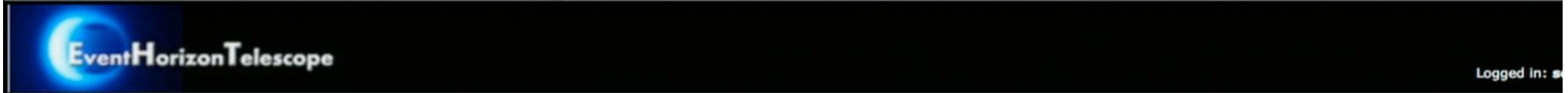
Calendar & Meetings

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**

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26	27	28	29	30	31	Nov 1
2	3	4	5	6	7	8
9	10	11	12	13	14	15



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Teleconferences

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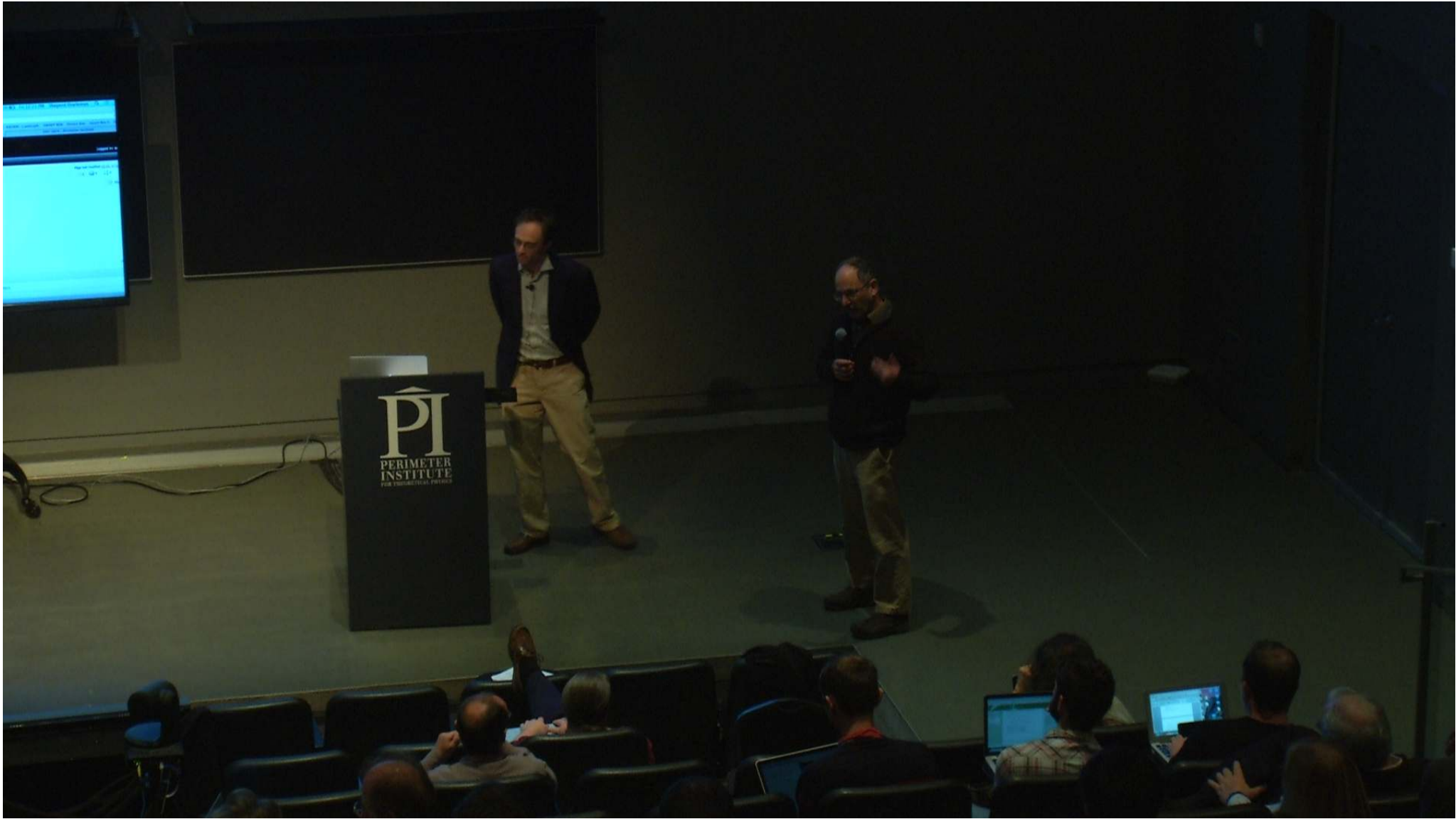
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Images 0

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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 & VERITUS Collaboration 2012, AIPC, 1505, 586](#)
2. MWL paper from 7 mm to GeV: [Hada et al. 2014, ApJ, 788, 165](#)

Tags: ([Edit tags](#))

No tags

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	Actions
manuscript.v1.7.pdf No description	696.08 kB	16:35, 27 Aug 2014	Kazunori Akiyama	Actions
memo_M87_ampcal.pdf No description	616.08 kB	09:25, 7 Jul 2014	Kazunori Akiyama	Actions

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