

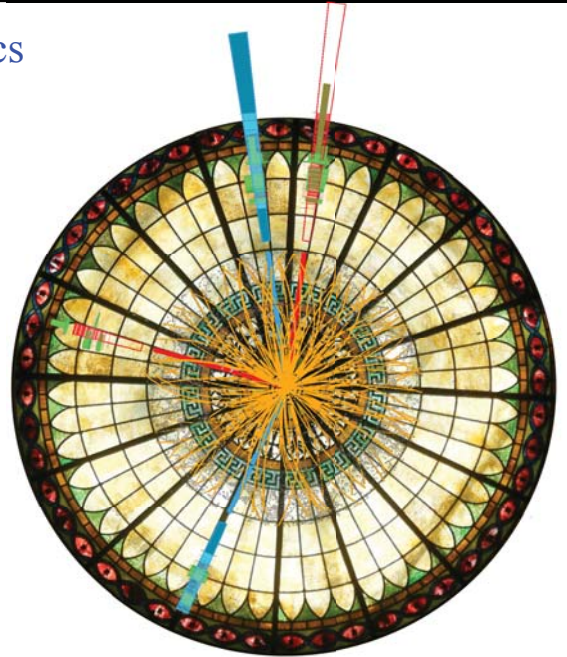
Workshop Report

Hosted by at SMU by the Department of Physics

DIS 2015

XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

Southern Methodist University
Dallas, TX, USA, April 27 - May 1, 2015



<http://www.dis2015.org>

250+ Participants from 30 Countries

BROOKHAVEN
NATIONAL LABORATORY

Jefferson Lab
Thomas Jefferson National Accelerator Facility



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Fermilab



SMU





5 May 2015

Dear DIS International Advisory Committee (IAC),

Last week SMU hosted the 2015 “International Workshop on Deep-Inelastic Scattering” (**DIS2015**) on the SMU campus, and I am pleased to report this meeting was well received by the participants, and the feedback was overwhelmingly positive.

The **DIS2015** meeting is the premier international workshop that brings experimentalists and theorists together to discuss the latest results in DIS and related subjects. Our workshop drew 250+ scientists from 30 countries across the globe.

The website for the workshop is located at: **<http://dis2015.org>**

Thank you again for the opportunity to bring this workshop to SMU.

Regards,

Fred Olness

SMU Physics Department
Dallas, TX 75275-0175
(214) 768-2500
olness@smu.edu
<http://www.physics.smu.edu/olness>

250+ Participants from 30 Countries



263

Registrants

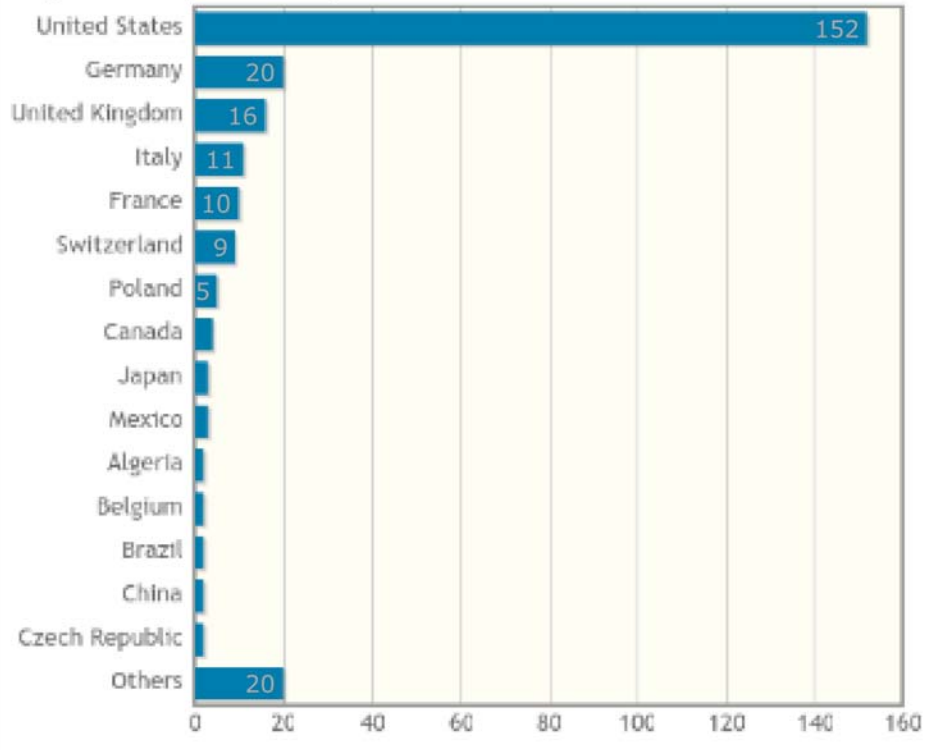
0

Days left
to register

30

Countries

Registrants per country



Past Meeting Locations

DIS International Workshop

2015: SMU, Dallas, Texas USA

2014: Warsaw, Poland

2013: Marseille France

2012: Bonn Germany

2011: Newport News, USA

2010: Florence, Italy

2009: Madrid, Spain

2008: London, UK

2007: Munich, Germany

2006: Tsukuba, Japan

2005: Madison, USA

2004: Strbske Pleso, Slovakia

2003: St. Petersburg, Russia

2002: Krakow, Poland

2001: Bologna, Italy

2000: Liverpool, UK

1999: Zeuthen, Germany

1998: Brussels, Belgium

1997: Chicago, USA

1996: Rome, Italy

1995: Paris, France

1994: Eilat, Israel

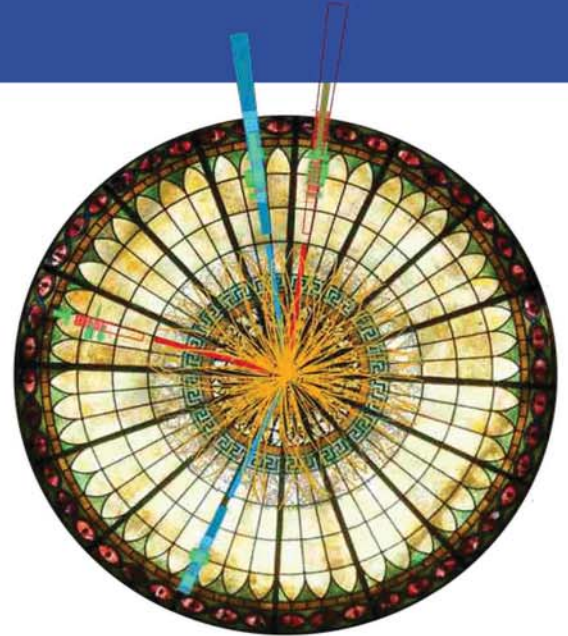
1993: Durham, UK

Conference Poster

DIS 2015

XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

Southern Methodist University
Dallas, TX, USA, April 27 - May 1, 2015



<http://www.dis2015.org>

The workshop covers wide-ranging topics in theory and experiment, including BNL, CERN, DESY, FNAL, JLab and KEK.

The program is organized around working groups:

- WG1** Structure Functions & Parton Densities
- WG2** Small-x, Diffraction & Vector Mesons
- WG3** Electroweak Physics &
Beyond the Standard Model
- WG4** QCD and Hadronic Final States
- WG5** Heavy Flavours
- WG6** Spin Physics
- WG7** Future Experiments

Local Organizing Committee

Fred Olness (Chair), Ben Clark,
Jodi Cooley, Simon Dalley, Ana Firan,
Eric Godat, Rick Guarino, Michele Hill,
Ken Harvey, Robert Kehoe,
Florian Lyonnet, Cas Milner,
Pavel Nadolsky, Lacey Porter,
Randy Scalise, Stephen Sekula,
Karl Wachs

Scientific Organizing Committee

- Abhay Deshpande (Stony Brook)
- Kenichi Hatakeyama (Baylor)
- Thia Keppel (JLab)
- Jorge Morfin (Fermilab)
- Pavel Nadolsky (SMU)
- Fred Olness (SMU)
- Joseph Owens (FSU)
- Jianwei Qiu (BNL)
- Pat Skubic (Oklahoma)
- Karl Wachs (SMU)
- Markus Wobisch (LA Tech)
- Jae Yu (UT-Arlington).



Public Lecture Poster

If the Universe is the answer...

WHAT IS THE QUESTION?

A night of physics questions and hints to
how we might answer them!



Dr. Joe
IZEN

Professor of
Physics

UT-Dallas



Dr. Pat
SKUBIC

Professor of
Physics
Oklahoma
University



Dr. Chris
JACKSON

Assistant
Professor of
Physics
UT-Arlington



Dr. Stephen
SEKULA

Assistant
Professor of
Physics
SMU

SUNDAY, 26 APRIL 2015

TIME: 6:30-7:30 PM

LOCATION: SMU Hughes-Trigg Theatre

Free and open to the public. No tickets necessary

Questions: (214) 768-2495

National Media Coverage

Champions in Science, Whose Stars are Still Rising: Profile of Ana C. Lauer, National Science Bowl

For the run up to the 2015 National Science Bowl, this story is the last profile of a series on previous National Science Bowl competitors and champions.

[Read More »](#)

1 of 3 



Featured Articles

[RSS](#) [View All »](#)



Champions in Science, Whose Stars Are Still Rising: Profile of George Vardaxis, National Science Bowl

For the run up to the 2015 National Science Bowl Finals April 30th to May 4th, this story is the third of five profiles on previous National Science Bowl competitors and champions. [Read More »](#)



The Department of Energy Invites Nominations for the 2015 Ernest Orlando Lawrence and James Chadwick Awards

Nominations for the 2015 Ernest Orlando Lawrence and James Chadwick Awards are being accepted until June 15, 2015. [Read More »](#)



Champions in Science Whose Stars Are Still Rising: Profile of Jason Tumlison, National Science Bowl Champion 1992

For the run up to the 2015 National Science Bowl Finals April 30th to May 4th, this is the second of five profiles on previous National Science Bowl competitors and champions. [Read More »](#)

Science Headlines

[RSS](#) [View All »](#)

Galaxy-Gazing Telescope Sensors Pass Important Vision Tests

04.28.15 Results give scientists additional confidence in the ability of the Dark Energy Survey to detect objects of dark matter. [Read More »](#)

DOE Provides \$75 Million for Sunlight Hub

The U.S. Department of Energy has announced \$75 million in funding for the Sunlight Hub. [Read More »](#)

The Sunlight Hub originally established in 2010 with the goal of harnessing solar energy for the production of fuel. [Read More »](#)

ALCF Supercomputer Helps Identify Materials to Improve Fuel Production

04.28.15 With access to supercomputing resources at the Argonne Leadership Computing Facility (ALCF), a U.S. Department of Energy (DOE) Office of Science User Facility, a research team from the University of Minnesota and Rice University has demonstrated a predictive modeling capability that can help accelerate the discovery of new materials to improve biofuel and petroleum production. [Read More »](#)

University Research

[RSS](#) [View All »](#)



1st Proton Collisions at the World's Largest Science Experiment Expected to Start the First or Second Week of June

First collisions of protons at the world's largest science experiment are expected to start the first or second week of June, according to a senior research scientist with CERN's Large Hadron Collider in Geneva. [Read More »](#)



Engineering the Smallest Crack in the World

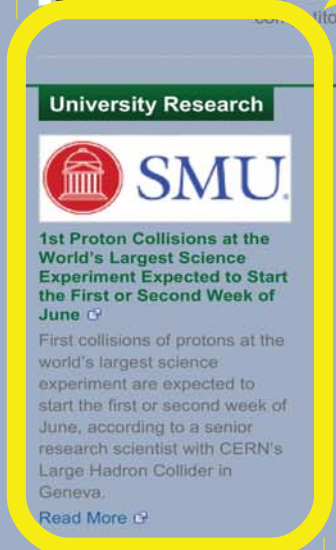
A new procedure developed by nanengineers at the University of California, San Diego will enable researchers to fabricate smaller, faster, and more powerful nanoscale devices — and do so with molecular control and precision. [Read More »](#)



UGA Researchers Growing Trees Faster and Easier to Turn Into Fuel

A team of researchers at the University of Georgia and the U.S. Department of Energy's Bioenergy Science Center in Tennessee have surprising answers about the potential to manipulate the genetics in trees to work to our advantage. [Read More »](#)

We made the DoE Office of Science Homepage



International Media Coverage

Dallas welcomes the DIS2015 International Workshop

This spring, the 23rd International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2015) took place at the Southern Methodist University (SMU) in Dallas, Texas. The workshop was held from 27 April to 1 May, and included some 250 participants representing 30 countries, presenting more than 200 talks on a multitude of subjects. The programme reported on current developments in DIS and QCD, as well as updates on the latest results from the LHC, HERA, Tevatron, Jefferson Lab, RHIC and fixed-target experiments. It also covered related theoretical topics and future experimental opportunities.

The workshop began with a full day of plenary reports on recent progress from both the experiment and theory frontiers; these excellent overview presentations stimulated extensive discussion and generated interest for the upcoming parallel talks. This was followed by two and a half days of parallel talks, organised around seven themes: structure functions and parton densities; small- x , diffraction and vector mesons; electroweak physics and beyond the Standard Model; QCD and hadronic final states; heavy flavours; spin physics; and future experiments.

Work on the structure of the proton has seen tremendous advances recently. The final HERAPDF2.0 results were presented, as well as updates from the individual groups working on parton-distribution functions (PDFs). These discussions were timely because the PDF improvements will help with analysis of the LHC Run 2.

There were also extensive updates from the LHC on the properties of the Higgs boson, as well as prospects for searching for new Higgs-like objects including SUSY, extra gauge bosons (W' , Z') and other exotica. Precision measurements from both RHIC and LHC experiments can also place constraints on new physics signatures such as "dark photons".

On the heavy-flavours frontier, new improvements on theoretical calculations matched with new experimental measurements from RHIC and the LHC were seen. Heavy-flavour production is an incisive tool, which can probe many features of QCD;



Conference participants on the steps of SMU (top), and enjoying the social events (above left), which included the conference banquet at the Perot Museum of Nature and Science (above right). (Image credits: DIS2015.)

however, the heavy-quark mass introduces an additional scale, which complicates the theoretical calculations. Nevertheless, new techniques, clever ideas and hard work have enabled progress to be made in this area.

The spin-physics session had extensive discussions on HERMES and COMPASS data, as well as measurements from RHIC and Jefferson Lab experiments. This was complemented on the theoretical side by advances in generalized PDFs, which can reconstruct the proton structure in 3D.

The future of DIS

In the areas of small- x , diffraction and vector mesons, a wide range of interesting topics were presented, including parton saturation and shadowing, non-linear evolution, tests of factorisation, and rapidity-gap physics for both protons and nuclei.

The future landscape of DIS was also discussed, including the JLab 12 GeV upgrade, the Deep Underground Neutrino Experiment (DUNE) at the Long-Baseline Neutrino Facility (LBNF), the Electron-Ion-Collider (EIC) and the LHeC. In combination, these projects will vastly extend the reach of DIS to study matter from the lowest to highest energies and densities.

The workshop programme made room for several social and outreach events, including a public lecture entitled "If the universe is the answer, what is the question?" This event featured four physicists from the workshop discussing critically important unanswered physics questions that upcoming

experiments might help to resolve. The presentations were stimulating and thought provoking, and gave the local audience a non-technical glimpse into issues discussed at the workshop.

The social highlight of the meeting was the "Night at the Science Museum" conference banquet, which was held at Dallas's new Perot Museum of Nature and Science. The museum blends art, technology and science with renowned interactive and hands-on scientific exhibits, which flow across multiple levels in a building that is a creative, ecologically "green" architectural design, situated in the heart of downtown Dallas. Conference members enjoyed a "strolling" catered dinner, which progressed from the upper exhibits through to the entry-level atrium, where dinner culminated with dessert, coffee and discussion.

The workshop was generously supported by Brookhaven National Laboratory (BNL), CERN, DESY, Fermilab, Jefferson Lab, the National Science Foundation (NSF), the US Department of Energy (DOE) and the SMU.

The workshop demonstrated how "DIS and related subjects" permeates a broad range of physics topics, from hadron colliders to spin physics, neutrino physics and more. There is still much work to be done and information to be extracted from the latest experiments. The good news is that the DIS workshop series will continue next year, with DESY hosting DIS2016 in Hamburg, Germany, from 11 to 15 April 2016.

• For more details, see www.dis2015.org.

Night at the Science Museum

DIS2015 Workshop Banquet:

"Strolling Dinner" catered by Beyond the Box with Chef Douglas Brown



Menu

4th Floor - Passed Hors d'oeuvres, wine, cash bar

3rd Floor - Avocado Martini station, wine, cash bar

2nd Floor - TI Hall of Innovation (no stations)

1st Floor - Main Course: Risotto Station,

Beef & Turkey Carving Station,

Antipasto Display

Ground Floor – Grand Dessert Station & Coffee

Photos



Night At The Science Museum

Photos



Photos



Photos



Participant Feedback

Fantastic organization, SMU and everybody involved did a great job as hosts! The dinner was particularly spectacular, but also the little things were all in place.

Very well organized, food was excellent. Having all the meeting rooms very close together

The workshop was extraordinary well organized, congratulation.

Plenary sessions. Increase number of general talks.

The plenary sessions were quite enjoyable.

The food selection was top notch. Thank you for making such an effort for vegetarian options available.

It was my first DIS workshop. I found it was well organized. The presentations / contributions were of high quality.

The hotel is also excellent. I am impressed!

Met my expectations for a excellent workshop

Very well organized workshop.

In my opinion also the location was excellent.

I could attend only the parallel sessions, and everything worked out great!

All seated banquets, the free time day activities and the banquet in the science museum were excellent. It was a very good idea to spread the food on several floors to make mixing and mingling about the participants more likely.

Very well organized, lot of work

Overall it's a great conference. It brings together theorists and experimentalists in a special way.

very good

Ratio of talks:breaks:time for small talk was very good.

Gives people time to think/ask more questions/discuss ideas and possible collaborate

Overall the workshop was very well organized and there was plenty of instructions provided regarding to arrival to Dallas and conference venue. The only thing I wasn't completely happy was the box lunches but this was rather small part of the whole. The venue for the conference banquet was very nice and also the food over there was splendid!

The conference was excellent.

It all went very well and seemed very well organized.

In general very impress. The best conference I have ever attended. Thanks.

Workshop was very well organized, with a lot of attention paid to details. Well done!

the place for the conference was very nice and it was a very good idea to offer shared rooms

Nice!

the conference notebook was very nice, but it is almost too much. I didn't really use it and probably won't do so in the future. But it is a personal point of view of course

Organizing Committees

*The **DIS2015** International Advisory Committee:*

Halina Abramowicz (**Tel Aviv**),
Barbara Badełek (**University of Warsaw**),
Sergio Bertolucci (**CERN**),
Ian Brock (**Bonn**),
Allen Caldwell (**Munich**),
Amanda Cooper-Sarkar (**Oxford**),
John Dainton (**Liverpool**),
Cristinel Diaconu (**Marseilles**),
Rolf Ent (**Jefferson Lab**),
Joel Feltesse (**Saclay**),
Stefano Forte (**Milano**),
Elisabetta Gallo (**Florence**),
Rolf-Dieter Heuer (**CERN**),
Robert Klanner (**Hamburg**),
Max Klein (**Liverpool**),
Aharon Levy (**Tel Aviv (Chair)**),
Lev Lipatov (**St. Petersburg**),
Joachim Mnich (**DESY**),
Hugh Montgomery (**Jefferson Lab**),
Rosario Nania (**Bologna**),
Fredrick Olness (**SMU**),
Juan Terron (**Madrid**),
Robert Thorne (**London**),
Katsuo Tokushuku (**KEK**),
Steven Vigdor (**BNL**),
Matthew Wing (**London**)

Organizing Committees

*The **DIS2015** Physics Program Committee:*

Abhay Deshpande (**Stony Brook**),
Kenichi Hatakeyama (**Baylor**),
Thia Keppel (**Jefferson Lab**),
Jorge Morfin (**Fermilab**),
Pavel Nadolsky (**SMU**),
Fred Olness (**SMU**),
Joseph Owens (**FSU**),
Jianwei Qiu (**Brookhaven National Lab**),
Pat Skubic (**Oklahoma**),
Markus Wobisch (**LA Tech**),
Jae Yu (**UT-Arlington**)

&

*The **DIS2015** Local Organizing Committee (**SMU**):*

Ben Clark,
Jodi Cooley,
Simon Dalley,
Ana Firan,
Eric Godat,
Rick Guarino,
Michele Hill,
Ken Harvey,

Robert Kehoe,
Florian Lyonnet,
Cas Milner,
Lacey Porter,
Randy Scalise,
Stephen Sekula,
Karl Wachs,
Biao Wang

PARTICIPANTS

DIS 2015

XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

Dallas, Texas
April 27 – May 1, 2015



DIS 2015

XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

Dallas, Texas
April 27 – May 1, 2015



DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects

from 27 April 2015 to 1 May 2015
US/Central timezone

Overview

Scientific Programme

Call for Abstracts

View my Abstracts

Submit Abstract

Timetable

Contribution List

Author List

My Conference

Participant List

Book of Abstracts

Registration

Videoconference Rooms

Support

✉ dis2015@list.smu.edu

☎ +1 (214) 768-2495

Participant List

263 participants

First Name	Last Name	Affiliation
Braden Keim	Abbott	University of Oklahoma (US)
Alberto	Accardi	Hampton U and Jefferson Lab
Elena	Accomando	Southampton University
Jaroslav	Adam	Czech Technical University (CZ)
Leszek	Adamczyk	AGH University of Science and Tec...
Shankar	Adhikari	urn:Google
Mohammad	Ahmady	Mount Allison University
Michael	Albrow	Fermi National Accelerator Lab. (U...
Kalyan	Allada	Massachusetts Institute of Techno...
Tolga	Altinoluk	Universidade de Santiago de Com...
Bruno	Angelucci	University of Glasgow (UK)
Leonard	Apanasevich	University of Illinois at Chicago (U...
Jonathan	Asaadi	Syracuse University
elke-caroline	Aschenauer	BNL
Howard	Baer	University of Oklahoma
Petr	Balek	Charles University (CZ)
Kenneth	Barish	UC Riverside
Alexandre	Beaulieu	University of Victoria
Michael	Beaumier	University of California Riverside
Olaf	Behnke	Deutsches Elektronen-Synchrotro...
Camille	Belanger-Champagne	McGill University (CA)

Rakitha	Beminiwattha	Syracuse University
Arie	Bodek	University of Rochester (US)
Marie	Boër	Institut de Physique Nucleaire
Enrico	Bothmann	II. Physikalisches Institut, Univers...
Gerhard Immanuel	Brandt	Georg-August-Universitaet Götting...
Grzegorz	Brona	University of Warsaw
Annarita	Buonaura	Università di Napoli e INFN
Matthias	Burkardt	NMSU
Peter	Bussey	Glasgow University
Edith Zinhle	Buthelezi	iThemba Lab. for Accel. Based Sci...
Robert	Calkins	Southern Methodist University
Stefano	Camarda	Deutsches Elektronen-Synchrotr...
Tingting	Cao	SMU Physics
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Karen	Chen	Stony Brook University (US)
Giovanni Antonio	Chirilli	The Ohio State University
Marcin	Chrzaszcz	University of Zurich (CH), Polish A...
Robert	Ciesielski	Rockefeller University (US)
David	Clark	Southern Methodist University
John	Collins	Penn State University
Jodi	Cooley	Southern Methodist University (US)
Amanda	Cooper-Sarkar	University of Oxford (GB)
Aurore	Courttoy	División de Ciencias e Ingenierías,...
Emilia	Cruz Alaniz	University of Liverpool
Harleen	Dahiya	Dr. B.R. Ambedkar National Institu...
Simon	Dalley	Southern Methodist University
Jordan	Damgov	Texas Tech University (US)
Christopher	Deans	University of Edinburgh
maxime	defurne	CEA/IRFU/SPhN
Mario	Deile	CERN
Yazid	Delenda	Université Hadj Lakhdar - Batna
Albert	De Roeck	CERN
Abhay	Deshpande	Stony Brook University
Govinda	Dhungana	Southern Methodist University
Antonia	Di Crescenzo	Universita e INFN, Napoli (IT)
Markus	Diefenthaler	University of Illinois at Urbana-Ch...
Jim	Drachenberg	Valparaiso University
Cosmin	Dragoiu	Texas Tech University (US)
Adrian	Dumitru	Baruch College (City University of ...
Richard Keith	Ellis	Fermi National Accelerator Lab. (U...
Rolf	Ent	Jefferson Lab
Salvatore	Fazio	Brookhaven National Laboratory
Nils	Feege	Stony Brook University
Matthew	Feickert	Southern Methodist University (US)
Farley	Ferrante	SMU
Juri	Fiaschi	University of Southampton
Kevin	Finelli	University of Sydney (AU)
Nadia	Fomin	University of Tennessee
Stefano	Forte	Università degli Studi e INFN Mila...
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Jasone	Garay Garcia	Deutsches Elektronen-Synchrotr...
Isabella	Garzia	INFN-Ferrara

David	Gaskell	Jefferson Lab
M. Beatriz	Gay Ducati	UFRGS
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Carlos	Granados	Uppsala University
Francesco	Grancagnolo	INFN
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Devika	Gunarathne	Temple University
Paolo	Gunnellini	Deutsches Elektronen-Synchrotr...
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Daniel	Hayden	Michigan State University (US)
Ilkka	Helenius	Lund University, The Department ...
Martin	Hentschinski	Institute for Nuclear Science, UNA...
Jaime	Hernandez-Sanchez	Benemerita Universidad Autónom...
Michele	Hill	SMU
Bob	Hirosky	University of Virginia (US)
Kent	Hornbostel	SMU
Tie-Jiun	Hou	SMU
Yuriy	Ilichenko	UT Austin
Joseph Michael	Izen	University of Texas at Dallas (US)
Prerit	Jaiswal	Syracuse University
Dan	Jardin	SMU
Tomas	Jezo	University of Milano-Bicocca
Xiaodong	Jiang	Los Alamos National Laboratory
Philipp	Jörg	University of Freiburg
Andreas	Jung	Fermilab
Daekyoung	Kang	Los Alamos National Lab
Zhongbo	Kang	Los Alamos National Laboratory
Tomas	Kasemets	Nikhef/VU
Robert	Kehoe	Southern Methodist University (US)
Cynthia	Keppel	Thomas Jefferson National Acceler...
Kamel	Khelifa-Kerfa	Universite Hassiba Benbouali de C...
Nikolaos	Kidonakis	Kennesaw State University
Alexander	Kiselev	BNL
Max	Klein	The University of Liverpool
UTA	KLEIN	The University of Liverpool
Yuji	Koike	Niigata University
Piotr	Kotko	Penn State University
Nataliia	Kovalchuk	University of Hamburg
Karol	Kovarik	Institute for Theoretical Physics
Yuri	Kovchegov	The Ohio State University
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Ashish	Kumar	SUNY at Buffalo
Aleksander	Kusina	LPSC Grenoble

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Tuomas	Lappi	University of Jyvaskyla
Sung-Won	Lee	Texas Tech University (US)
Xiaowen	Lei	University of Arizona (US)
Aharon	Levy	Tel Aviv University (IL)
Xuan	Li	Temple University
Ye	Li	SLAC National Accelerator Lab
SANGHOON	LIM	Yonsei University
Huanzhao	Liu	Southern Methodist University
Kun	Liu	Los Alamos National Laboratory
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Nilanga	Liyanage	University of Virginia (US)
Xinchou	LOU	IHEP
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Peter James	Lowdon	Universitaet Zuerich (CH)
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Simona	Malace	Jefferson Lab
Wenjuan	Mao	Southeast University
Simone	Marzani	MIT
David	Marzocca	University of Zurich
Heather	Mcaslan	University of Sussex (GB)
Patricia	McBride	Fermilab
Madalyn	McKay	Southern Methodist University (US)
Wally	Melnitchouk	Jefferson Lab
Federico	Meloni	Universitaet Bern (CH)
Sven	Menke	Max Planck Institute for Physics
Andreas	Metz	Temple University
Cedric	Mezrag	IRFU/SPhN
Cas	Milner	Southern Methodist University
Alexander	Mitov	University of Cambridge (GB)
Sanshiro	Mizuno	University of Tsukuba
Soumya	Mohapatra	Columbia University (US)
Dermot Anthony	Moran	Universidad Autonoma de Madrid ...
Joel	Mousseau	University of Florida
Steve	Muanza	CPPM Marseille
Aditi	Mukhopadhyay	Baylor University
Piet	Mulders	Nikhef and VU University
Carlos	Munoz Camacho	IPN/JLab
Michael	Murray	University of Kansas (US)
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Pavel	Nadolsky	Southern Methodist University
Rohin Thampilali	Narayan	University of Texas at Austin
Gabriel	Niculescu	James Madison University
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Anne	Norrick	urn:Google
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Fred	Oiness	Southern Methodist University (US)
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Giovanni	Ossola	New York City College of Technolo...
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Frank	Petriello	Northwestern University
Roberto	Petti	University of South Carolina (US)
Cristian	Pisano	University of Antwerp
Daniel	Pitonyak	RIKEN BNL Research Center
Ringaile	Placakyte	Deutsches Elektronen-Synchrotr...
Matthew	Posik	Temple University
Michal	Praszalowicz	Jagellonian University, Krakow
Stefan	Prestel	SLAC
Serban	Protopopescu	Brookhaven National Laboratory
Hang	Qiu	Southern Methodist University
Jianwei	Qiu	Brookhaven National Lab
Harikrishnan	Ramani	Stony Brook University
Denis	Rathjens	Hamburg University (DE)
Heather	Ray	University of Florida
Amir	Rezaeian	Universidad Tecnica Federico Sant...
Seamus	Riordan	Stony Brook University
Flera	Rizatdinova	Oklahoma State University (US)
Ted	Rogers	Old Dominion University
Francesco	Romeo	Chinese Academy of Sciences (CN)
Elvira	Rossi	Universita' degli Studi di Napoli "P...
Richard	Ruiz	University of Pittsburgh
Matthias	Saimpert	CEA/IRFU,Centre d'etude de Sacla...
Nobuo	Sato	Jefferson Lab
giulio	sbrizzai	trieste university and infn
Randall	Scalise	SMU
Eugenio	Scapparone	INFN-Bologna(IT)
INGO	SCHIENBEIN	LPSC/CNRS
Stefan	Schmitt	Deutsches Elektronen-Synchrotr...
Christian	Schwanenberger	Deutsches Elektronen-Synchrotr...
Erin	Seder	CEA Saclay, DSM/IRFU/SPhN
Stephen Jacob	Sekula	Southern Methodist University (US)
Mirko	Serino	Institute of Nuclear Physics, Polish...
Frank	Siebert	Technische Universitaet Dresden (...)
Patrick	Skubic	University of Oklahoma (US)
Iouri	Smirnov	Northern Illinois University (US)
Zachary	Snyder	Pennsylvania State University
Davison	Soper	University of Oregon
Pavel	Starovoitov	Deutsches Elektronen-Synchrotr...
Anna	Stasto	Penn State University
Ryan	Staten	Southern Methodist University
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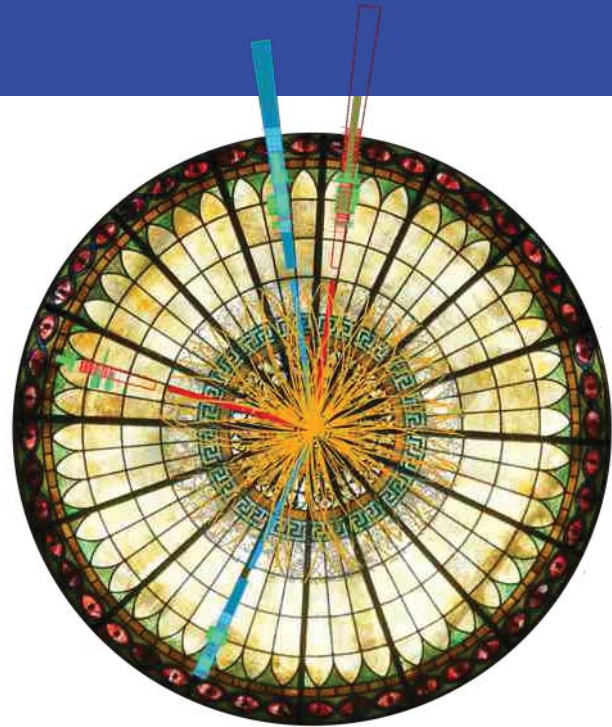
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