

Detector 1

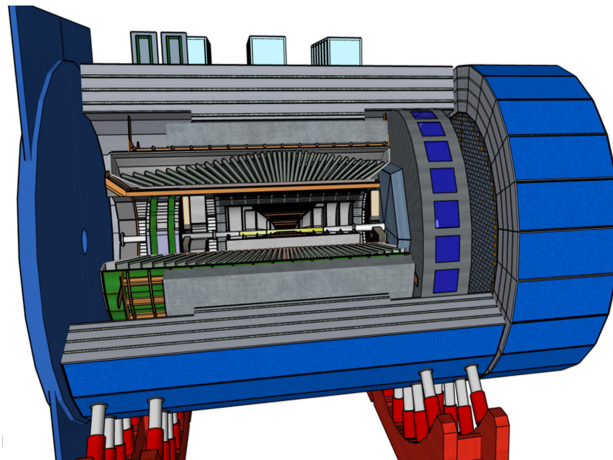
Institutional Survey & Analysis

Bernd Surrow



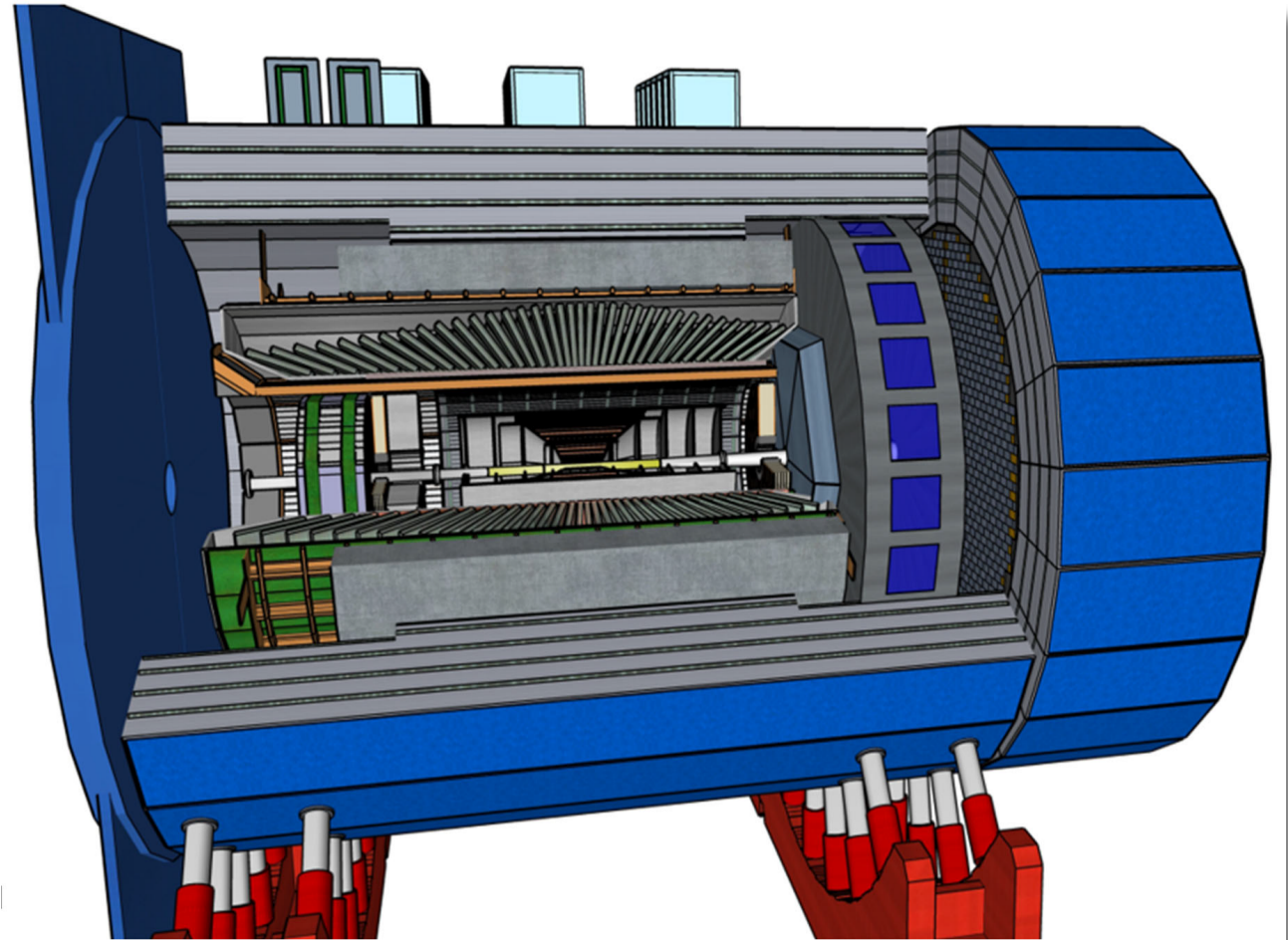
On behalf of the Detector 1 Steering Committee (SC)

Silvia Dalla Torre, Or Hen, Tanja Horn, John Lajoie, and Bernd Surrow



Outline

- Overview of Survey
- Institutional Coverage
- Physics Interests
- Sub-system Interests
- Analysis Tools
- Summary





Overview of Survey

- The survey link will remain active to allow updates, particularly FTE updates:

<https://forms.gle/kT2n2A3MLzMZRti16>

- General institutional information:

Section 2 of 11

If you answered "No" or "Maybe" to the last question, please provide any additional comments you are willing to share:

Long answer text

Did your institution participate in the Expression-of-Interest survey in 2019
(<https://www.bnl.gov/eic/eoi-faq.php>)? *

☐ Yes

☐ No

☐ I do not know!

After section 2 Continue to next section

Overview of Survey

□ Physics and Sub-system Interests

Section 9 of 11

Physics and Detector Sub-system Interests

Description (optional)

Please provide your institutional physics interests with respect to your anticipated active Working Group (WG) participation: *

☐ Software WG
 ☐ Inclusive WG
 ☐ Semi-Inclusive WG
 ☐ Exclusive, Diffraction and Tagging WG
 ☐ Jet & Heavy Flavor WG
 ☐ BSM & EW WG



Overview of Survey

☐ Physics and Sub-system Interests

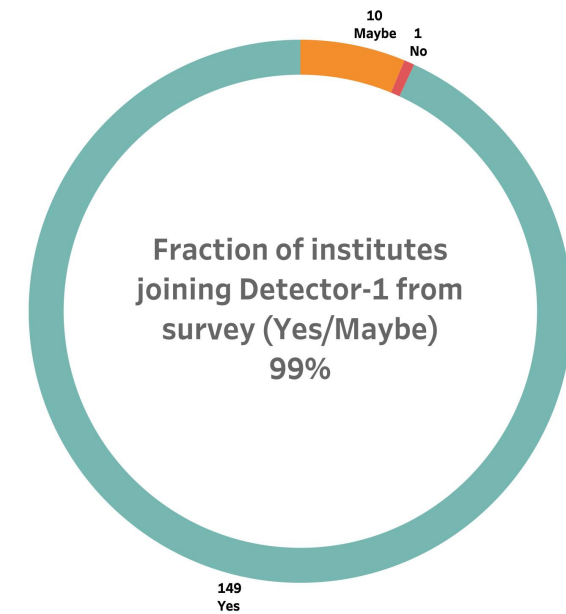
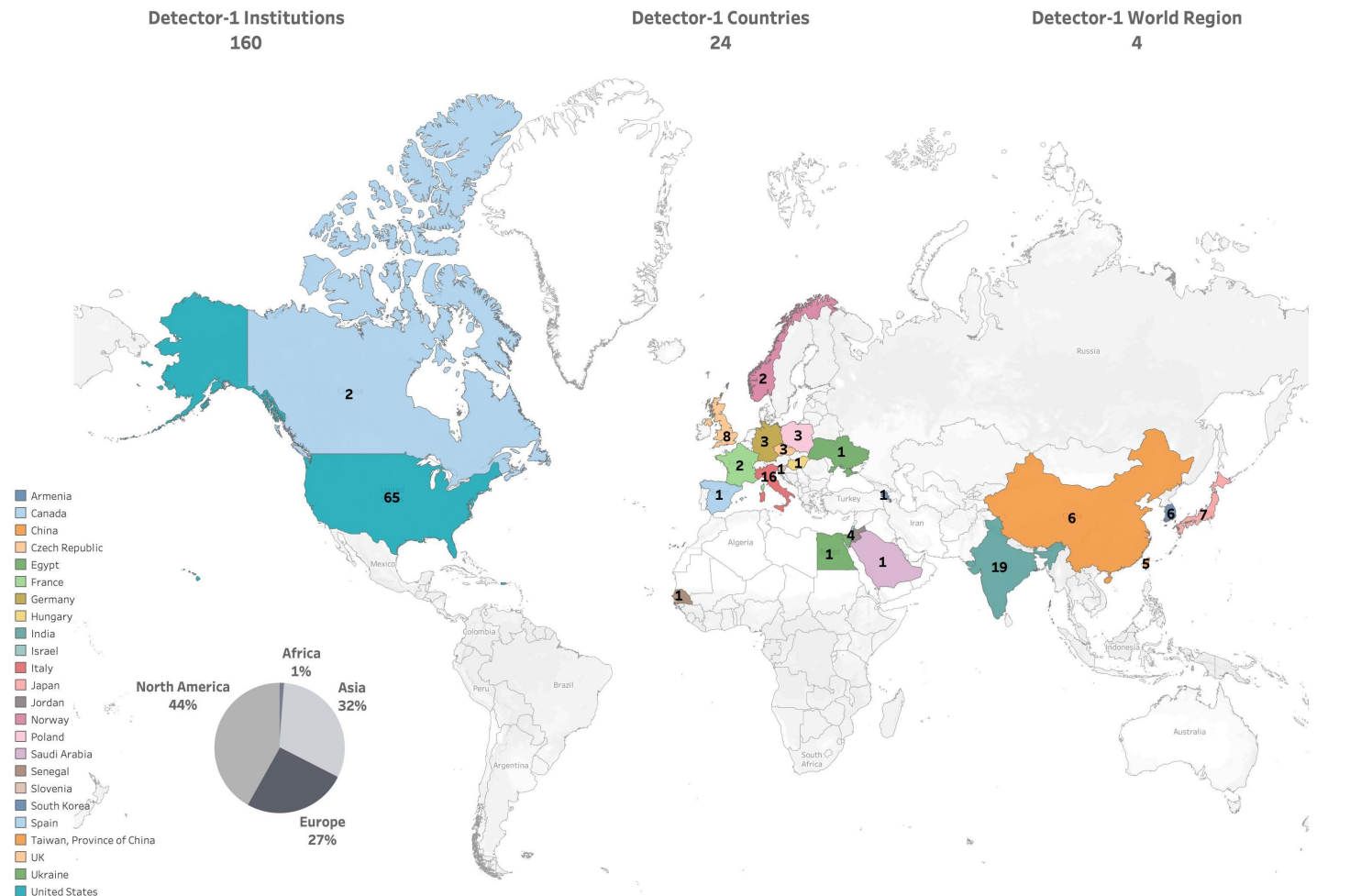
Please provide your institutional sub-system interests to actively participate in a Detector 1 sub-system: *

- ☐ Calorimetry Backward: EEMC
- ☐ Calorimetry Barrel: BEMC
- ☐ Calorimetry Barrel: BHCAL
- ☐ Calorimetry Forward: FEMC
- ☐ Calorimetry Forward: FHCAL
- ☐ PID Backward: mRICH/pfRICH
- ☐ PID Barrel: AC-LGAD TOF
- ☐ PID Barrel: hpDIRC
- ☐ PID Forward: dRICH
- ☐ Tracking Silicon
- ☐ Tracking AC-LGAD
- ☐ Tracking MPGD
- ☐ Far Backward: Low Q2 tagger
- ☐ Far Backward: Luminosity monitor
- ☐ Far Forward: B0
- ☐ Far Forward: ZDC
- ☐ Far Forward: Off-Momentum
- ☐ Far Forward: Roman pots
- ☐ Computing
- ☐ Software
- ☐ DAQ
- ☐ Magnet

Institutional Coverage

World Map

Detector-1 - A **global** pursuit for a new EIC experiment at IP6 at BNL



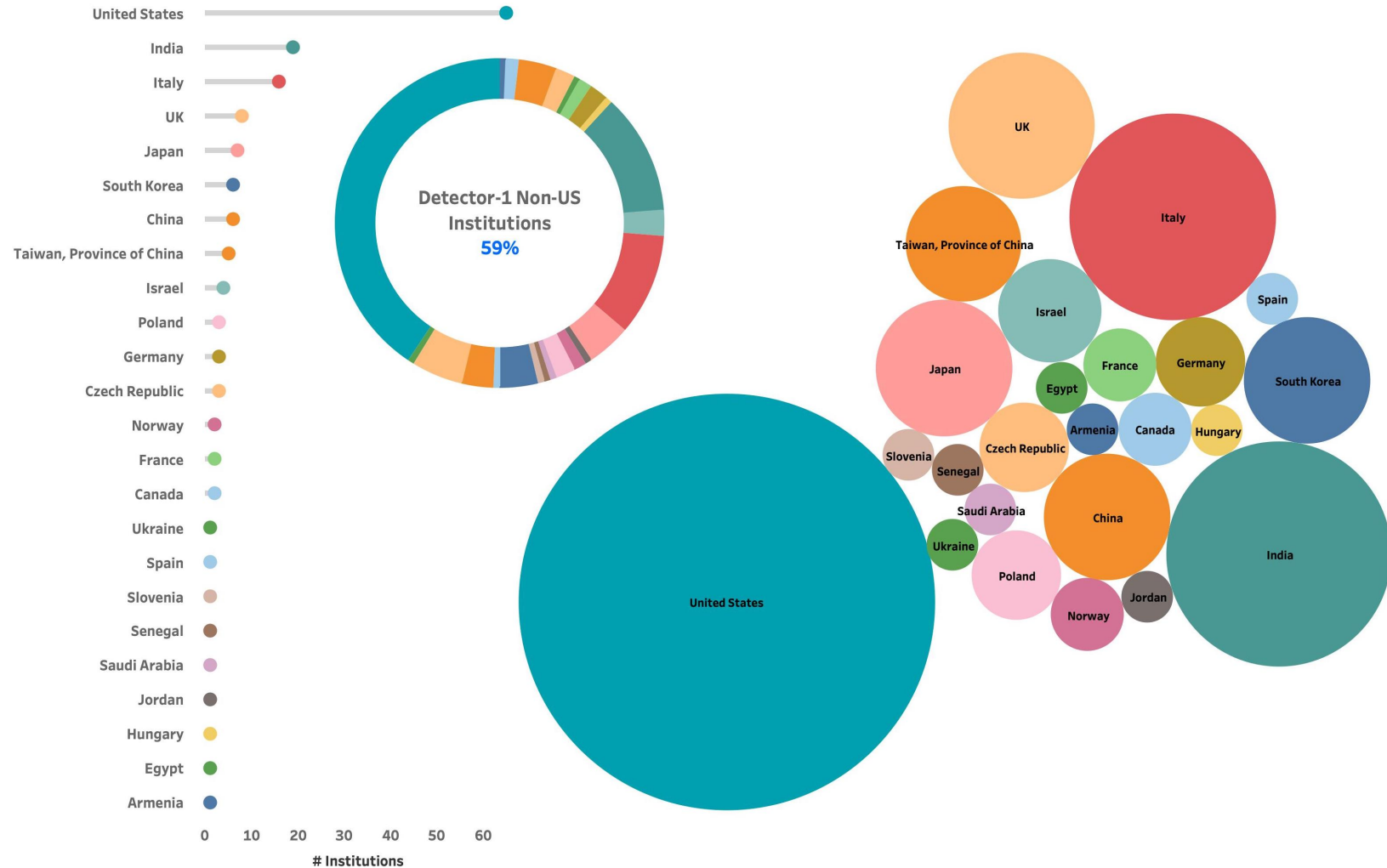
[Interactive Tableau link](#)

Bernd Surrow

Institutional Coverage

Number of Institutions

Detector-1 - A [global](#) pursuit for a new EIC experiment at IP6 at BNL

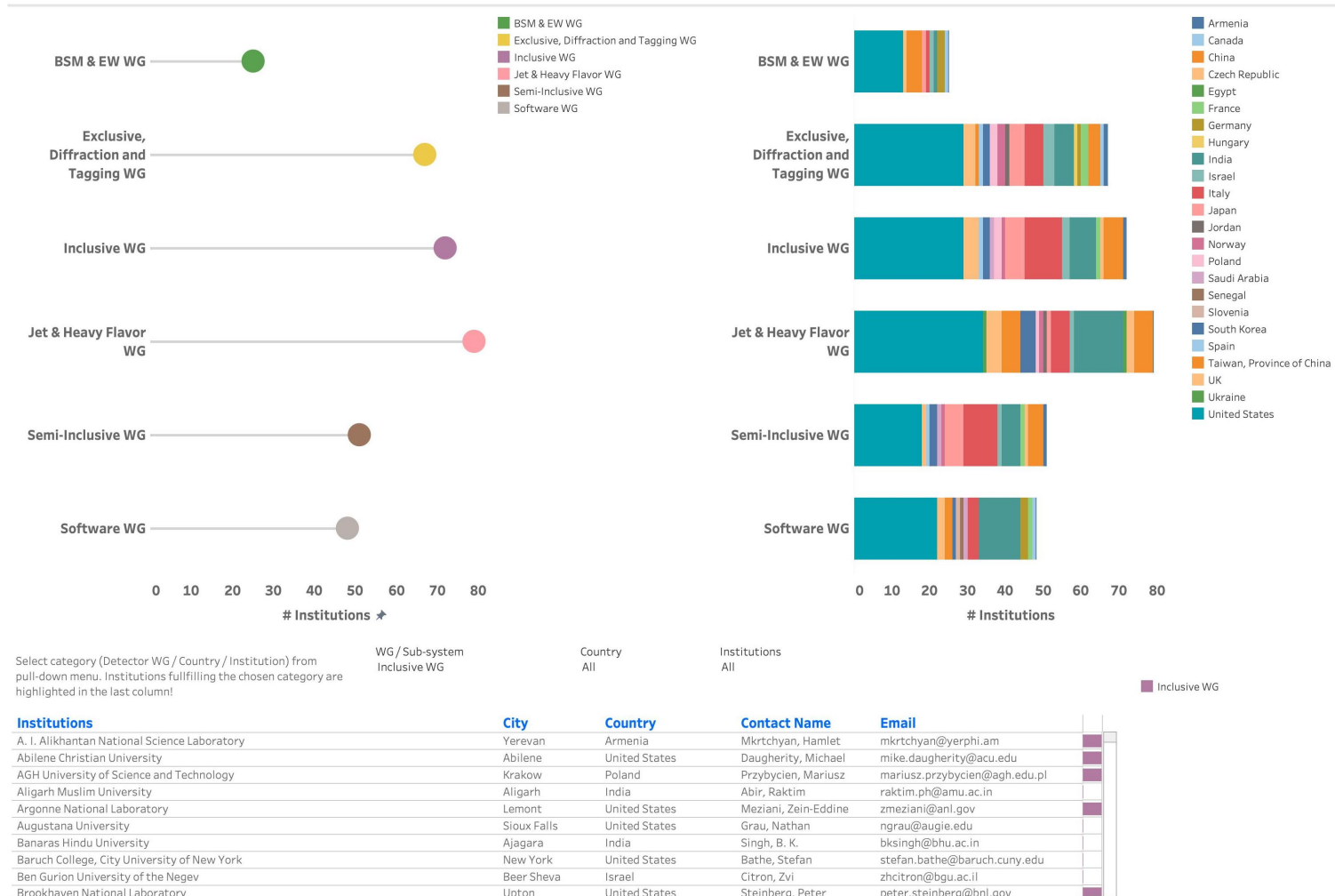


[Interactive Tableau link](#)

Physics Interests

Physics Interests

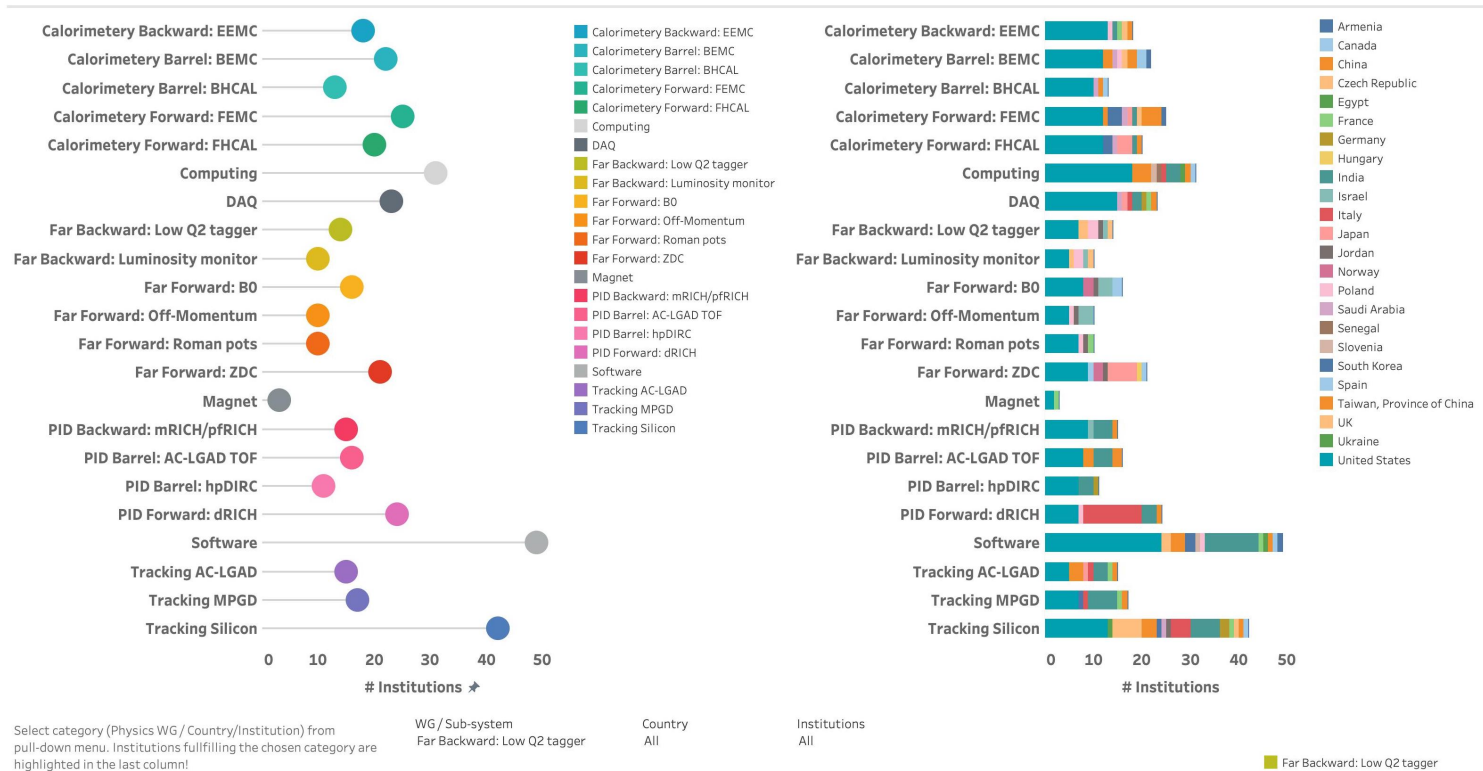
Detector-1 - A global pursuit for a new EIC experiment at IP6 at BNL / Physics Interests



Sub-system Interests

Sub-system Interests

Detector-1 - A global pursuit for a new EIC experiment at IP6 at BNL / Sub-System Interests



Institutions	City	Country	Contact Name	Email
A. I. Alikhantyan National Science Laboratory	Yerevan	Armenia	Mkrtchyan, Hamlet	mkrtchyan@yephi.am
Abilene Christian University	Abilene	United States	Daugherty, Michael	mike.daugherty@acu.edu
AGH University of Science and Technology	Krakow	Poland	Przybycien, Mariusz	mariusz.przybycien@agh.edu.pl
Aligarh Muslim University	Aligarh	India	Abir, Raktim	raktim.ph@amu.ac.in
Argonne National Laboratory	Lemont	United States	Meziani, Zein-Eddine	zmeziani@anl.gov
Augustana University	Sioux Falls	United States	Grau, Nathan	ngrau@augie.edu
Banaras Hindu University	Ajagara	India	Singh, B. K.	bksingh@bhu.ac.in
Baruch College, City University of New York	New York	United States	Bathe, Stefan	stefan.bathe@baruch.cuny.edu
Ben Gurion University of the Negev	Beer Sheva	Israel	Citron, Zvi	zhcitron@bgu.ac.il
Brookhaven National Laboratory	Upton	United States	Steinberg, Peter	peter.steinberg@bnl.gov

[Interactive Tableau link](#)

Analysis Tools

- Link to data file:

Click here: https://tuprd-my.sharepoint.com/:x:/g/personal/tue59914_temple_edu/EcGrTZU6CuFPjXt1foRZY-4Bv5z1In1x2wY9Li3y9YgwnQ?e=aQrWQp

incl. PIVOT tables for physics/sub-system interests by institution!

Brief Overview!

Analysis Tools

□ Sheet: Title

The screenshot shows the Microsoft Excel interface with the 'Detector-1_Pivot_Analysis_Screenshot' file open. The 'Home' tab is selected in the ribbon. The worksheet 'Title' is active, and a grey instruction box is overlaid on the grid.

Detector-1 Institutional List

Sheet: **Institutional List** List of institutions in alphabetical order. Prepare an institutional list for specified criteria (Below row 154).

Sheet: **Physics Pivot** Select country and any other combination of physics interests from the pull-down menu to show number of institutions.

Sheet: **Sub-system Pivot** Select country and any other combination of sub-system interests from the pull-down menu to show number of institutions.

Instructions: Download excel file to filter list and perform pivot analysis!

Questions and Updates: surrow@temple.edu

Last Update: 15-Jul-2022

The bottom of the Excel window shows the sheet tabs: 'Title', 'Institutional List', 'Physics Pivot', and 'Sub-system Pivot'. The status bar at the bottom indicates 'Ready' and a zoom level of 80%.

Analysis Tools

Sheet: Institutions

AutoSave OFF

Detector_1_Pivot_Analysis_Screenshot

Home Insert Draw Page Layout Formulas Data Review View Acrobat Table Tell me

Paste Calibri 12 General Conditional Formatting Insert Delete Format Sort & Filter Find & Select Analyze Data Sensitivity Create and Share Adobe PDF

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	A	B	C	D	E	F	G	H	I	
		Institution	Contact Name	Email	City	State	ZIP Code	Country	Region	
1		A. I. Alikhant National Science Laboratory	Mkrtchyan, Hamlet	mkrtyan@yerphi.am	Yerevan	NN	99999	Armenia	Asia	02 Alikha
2		Abilene Christian University	Daughterity, Michael	mike.daughterity@acu.edu	Abilene	TX	79601	United States	North America	1201 E A
3		AGH University of Science and Technology	Przybycien, Mariusz	mariusz.przybycien@agh.edu.pl	Krakow	NN	99999	Poland	Europe	Al. Micki
4		Aligarh Muslim University	Abir, Raktim	raktim.ph@amu.ac.in	Aligarh	NN	99999	India	Asia	Departm
5		Argonne National Laboratory	Meziani, Zein-Eddine	zmeziani@anl.gov	Lemont	IL	60439	United States	North America	Argonne
6		Augustana University	Grau, Nathan	ngrau@augie.edu	Sioux Falls	SD	57197	United States	North America	2001 Sou
7		Banaras Hindu University	Singh, B. K.	bksingh@bhu.ac.in	Ajagara	NN	99999	India	Asia	MM Mal
8		Baruch College, City University of New York	Bathe, Stefan	stefan.bathe@baruch.cuny.edu	New York	NY	10010	United States	North America	17 Lexin
9		Ben Gurion University of the Negev	Citron, Zvi	zhcitra@bgu.ac.il	Beer Sheva	NN	99999	Israel	Asia	PO Box 6
10		Brookhaven National Laboratory	Steinberg, Peter	peter.steinberg@bnl.gov	Upton	NY	11973	United States	North America	20 Penns
11		Brunel University London	Teodorescu, Liliana	Liliana.Teodorescu@brunel.ac.uk	Uxbridge	NN	99999	UK	Europe	Kingston
12		California Polytechnic State University, San Luis Obispo	Klay, Jennifer	jklay@calpoly.edu	San Luis Obispo	CA	93407	United States	North America	Departm
13		Canisius College	Wood, Michael	wood5@canisius.edu	Buffalo	NY	14208	United States	North America	2001 Ma
14		Catholic University of America	Horn, Tanja	horn@cu.edu	Washington, D.C.	DC	20064	United States	North America	620 Mich
15		CEA-Saclay	Bossu, Francesco	francesco.bossu@cea.fr	Gif-sur-Yvette	NN	99999	France	Europe	address:
16		Central China Normal University	Wang, Yaping	wangyaping@mail.ccnu.edu.cn	Wuhan	NN	99999	China	Asia	152 Luoy
17		Central University of Karnataka	Samuel, Deepak	deepaksamuel@cuk.ac.in	Kalaburagi	NN	99999	India	Asia	Central U
18		Central University of Tamil Nadu	Behera, Nirbhay Kumar	nirbhaykumar@cutn.ac.in	Neelakudi	NN	99999	India	Asia	Departm
19		Charles University, Faculty of Mathematics and Physics	Finger, Miroslav	miroslav.finger@cern.ch	Prague	NN	99999	Czech Republic	Europe	V Holeso
20		Cheikh Anta Diop University	KA, Oumar	oumar.ka@ucad.edu.sn	Dakar	NN	99999	Senegal	Africa	Dakar-Fa
21		Christopher Newport University	Brash, Edward	william.phelps@cnu.edu	Newport News	VA	23606	United States	North America	1 Avenue
22		Columbia University	Zajc, Bill	waz1@columbia.edu	New York	NY	10027	United States	North America	Departm
23		Creighton University	Seeger, Janet	jseeger@creighton.edu	Omaha	NE	68178	United States	North America	2500:Cal
24		Daresbury Laboratory	Lemmon, Roy	roy.lemmon@stfc.ac.uk	Daresbury	NN	99999	UK	Europe	Keckwick
25		Dr. B. R. Ambedkar National Institute of Technology Jalandhar	Dahiya, Harleen	dahiya@nitj.ac.in	Jalandhar	NN	99999	India	Asia	Departm
26		Duke University	Vossen, Anselm	anselm.vossen@duke.edu	Durham	NC	27708	United States	North America	Departm
27		Egyptian Center for Theoretical Physics	Tawfik, Abdel	a.tawfik@eng.mti.edu.eg	Giza	NN	99999	Egypt	Africa	20/3 Oct
28		Eotvos Lorand University	Csanad, Mate	csanad@elte.hu	Budapest	NN	99999	Hungary	Europe	Egyetem
29		Faculty of Mathematics and Physics, University of Ljubljana	Sirca, Simon	simon.sirca@fmf.uni-lj.si	Ljubljana	NN	99999	Slovenia	Europe	Jadransk
30		Florida Institute of Technology	Hohlmann, Marcus	hohlmann@fit.edu	Melbourne	FL	32901	United States	North America	150 W. U
31		Florida International University	Cosyn, Wim	wcosyn@fiu.edu	Miami	FL	33199	United States	North America	Florida I
32		Fudan University	Chen, Jinhui	chenjinhui@fudan.edu.cn	Shanghai	NN	99999	China	Asia	No 220, I
33		George Washington University	Schmidt, Axel	axelschmidt@gwu.edu	Washington, D.C.	DC	20052	United States	North America	725 21st
34		Georgia State University	Sarsour, Murad	msarsour@gsu.edu	Atlanta	GA	30302	United States	North America	25 Park F
35		Goa University	Palni, Prabhakar	prabhakar.palni@unigoa.ac.in	Panjim	NN	99999	India	Asia	Ag-28, Fa
36		GSI Helmholtzzentrum fuer Schwerionenforschung GmbH	Schwiening, Jochen	j.schwiening@gsi.de	Darmstadt	NN	99999	Germany	Europe	Planckst
37		Hampton University	Accardi, Alberto	kohl@jlab.org	Hampton	VA	23668	United States	North America	Physics D
38		IIT Madras	Pujahari, Prabhat	p.pujahari@gmail.com	Chennai	NN	99999	India	Asia	HSB 253,
39		IUCLab (Orsay)	Munoz Camacho, Carlos	munoz@jlab.org	Orsay	NN	99999	France	Europe	15 rue G
40		Indian Institute of Science Education and Research (IISER) Tirupati	Jena, Chitrasen	cjena@iiseritirupati.ac.in	Tirupati	NN	99999	India	Asia	Rami Rec
41		Indian Institute of Science Education and Research, Berhampur	Nasim, Md	nasim@iiserbpr.ac.in	Brahmapur	NN	99999	India	Asia	Govt. ITI
42		Indian Institute of Technology Bombay	Mukherjee, Asmita	sadhana@iitb.ac.in	Mumbai	NN	99999	India	Asia	IIT Bomb
43		Indian Institute of Technology Delhi	Tell, Tobias	tobias.tell@iitd.ac.in	New Delhi	NN	99999	India	Asia	Indian In

Ready

90%

AnalysisTools

Sheet: Institutions

AutoSave OFF

Detector_1_Pivot_Analysis_Screenshot

Home Insert Draw Page Layout Formulas Data Review View Acrobat Table Tell me

Paste Calibri 12 A⁺ A⁻ General Conditional Formatting Insert Delete Format Sort & Filter Find & Select Analyze Data Sensitivity Create and Share Adobe PDF

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Selection criteria by Countries, Physics WG and Sub-system interests

Countries

- Armenia
- Canada
- China
- Czech Republic
- Egypt
- France
- Germany
- Hungary
- India
- Israel
- Italy
- Japan
- Jordan
- Norway
- Poland
- Saudi Arabia
- Senegal
- Slovenia
- South Korea
- Spain
- Taiwan, Province of China
- UK
- Ukraine

Physics WG

Inclusive WG

No

Yes

Semi-Inclusive WG

No

Yes

Exclusive, Diffraction and...

No

Yes

Jet & Heavy Flavor WG

No

Yes

BSM & EW WG

No

Yes

Sub-system interests

Calorimetry Backward: E...

No

Yes

Calorimetry Barrel: BEMC

No

Yes

Calorimetry Barrel: BHCAL

No

Yes

Calorimetry Forward: FE...

No

Yes

Calorimetry Forward: FH...

No

Yes

PID Backward: mRICH/pf...

No

Yes

PID Barrel: AC-LGAD TOF

No

Yes

PID Barrel: hpDIRC

No

Yes

PID Forward: dRICH

No

Yes

Tracking Silicon

No

Yes

Tracking AC-LGAD

No

Yes

Tracking MPGD

No

Yes

Far Backward: Low Q2 tag...

No

Yes

Far Backward: Luminosity...

No

Yes

Far Forward: B0

No

Yes

Far Forward: ZDC

No

Yes

Far Forward: Off-MomentE...

No

Yes

Far Forward: Roman pots

No

Yes

Computing

No

Yes

Software

No

Yes

DAQ

No

Yes

Magnet

No

Yes

Title Institutional List Physics Pivot Sub-system Pivot +

Ready

70%

Analysis Tools

Sheet: Pivot Physics

The screenshot displays an Excel spreadsheet with a PivotTable titled "Physics Interest Analysis". The PivotTable is structured with "Institution / Contact Name / Email" as the row labels and "#" as the values. The data is filtered by "Country" (All) and "Institution" (All). The PivotTable Fields task pane on the right shows the data structure and filtering options.

Institution / Contact Name / Email	#
A. I. Alikhantan National Science Laboratory	1
Abilene Christian University	1
AGH University of Science and Technology	1
Aligarh Muslim University	1
Argonne National Laboratory	1
Augustana University	1
Banaras Hindu University	1
Baruch College, City University of New York	1
Ben Gurion University of the Negev	1
Brookhaven National Laboratory	1
Brunel University London	1
California Polytechnic State University, San Luis Obispo	1
Canisius College	1
Catholic University of America	1
CEA-Saclay	1
Central China Normal University	1
Central University of Karnataka	1
Central University of Tamil Nadu	1
Charles University, Faculty of Mathematics and Physics	1
Cheikh Anta Diop University	1
Christopher Newport University	1
Columbia University	1

AnalysisTools

Sheet: Pivot Sub-system

The screenshot displays a Microsoft Excel spreadsheet titled "Detector_1_Pivot_Analysis_Screenshot". The spreadsheet is divided into two main sections. The top section, labeled "Sub-system Interest Analysis", lists various sub-systems in column A, including "Country", "Calorimetry Backward: EEMC", "Calorimetry Barrel: BEMC", "Calorimetry Barrel: BHCAL", "Calorimetry Forward: FEMC", "Calorimetry Forward: FHCAL", "PID Backward: mRICH/pfRICH", "PID Barrel: AC-LGAD TOF", "PID Barrel: hpDIRC", "PID Forward: dRICH", "Tracking Silicon", "Tracking AC-LGAD", "Tracking MPGD", "Far Backward: Low Q2 tagger", "Far Backward: Luminosity monitor", "Far Forward: B0", "Far Forward: ZDC", "Far Forward: Off-Momentum", "Far Forward: Roman pots", "Computing", "Software", "DAQ", and "Magnet". The bottom section, also titled "Sub-system Interest Analysis", shows a pivot table with columns for "Institution / Contact Name / Email" and "#". The pivot table data is filtered by "Country" and "Institution". The right sidebar, titled "PivotTable Fields", shows the "FIELD NAME" list with "Institution", "Contact Name", and "Email" selected. The "Filters" section shows "Country" and "Calorimetry Backward: EEMC" selected. The "Columns" section shows "Institution", "Contact Name", and "Email" selected. The "Rows" section shows "Institution", "Contact Name", and "Email" selected. The "Values" section shows "#". The bottom status bar indicates "Ready" and "90%" zoom.

Sub-system	Country	Institution / Contact Name / Email	#
Country	(All)		
Calorimetry Backward: EEMC	(All)		
Calorimetry Barrel: BEMC	(All)		
Calorimetry Barrel: BHCAL	(All)		
Calorimetry Forward: FEMC	(All)		
Calorimetry Forward: FHCAL	(All)		
PID Backward: mRICH/pfRICH	(All)		
PID Barrel: AC-LGAD TOF	(All)		
PID Barrel: hpDIRC	(All)		
PID Forward: dRICH	(All)		
Tracking Silicon	(All)		
Tracking AC-LGAD	(All)		
Tracking MPGD	(All)		
Far Backward: Low Q2 tagger	(All)		
Far Backward: Luminosity monitor	(All)		
Far Forward: B0	(All)		
Far Forward: ZDC	(All)		
Far Forward: Off-Momentum	(All)		
Far Forward: Roman pots	(All)		
Computing	(All)		
Software	(All)		
DAQ	(All)		
Magnet	(All)		
Sub-system Interest Analysis			
Institution / Contact Name / Email			#
A. I. Alkhanan National Science Laboratory			1
Abilene Christian University			1
AGH University of Science and Technology			1
Aligarh Muslim University			1
Argonne National Laboratory			1
Augustana University			1
Banaras Hindu University			1
Baruch College, City University of New York			1
Ben Gurion University of the Negev			1
Brookhaven National Laboratory			1

Summary

- ❑ FTE analysis will be released at a later stage
- ❑ Recommendations for WG Conveners:
 - Look through data and identify all institutions that have expressed interest in your area (Use PIVOT tables and email lists!).
 - Contact in particular those institutions who have not been active so far, but expressed interest on how to best get started and engage them in your activities!
 - Encourage “new groups” to prepare a few slides (INDICO) on their interests, expertise, and plans as a means to pro-actively engage them in your WG.
 - Let us know if there are any questions/feedback on the tools etc. and how we could help!

Thank you!