## **IHEP ROC Status Report**

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Introduction

Reactivating IHEP ROC

Person-powers and Facilities

Outlook

### CMS Central Shift at CERN



- photo from CMS CERN news public website. Credit: CERN, Ordan, Julien.

- Oversee CMS operations: Run Field Manager.
- Core operation team: Shift Leader, Trigger Shifter, DAQ Shifter, DQM Shifter and Technical Shifter.
- Detector Experts on Call.

## **IHEP ROC History**

#### **IHEP ROC**

- IHEP ROC being established at IHEP in 2009.
- Joint local efforts from CMS IHEP group and Computing Center.
- Inactive for several years after LS1.

#### IHEP, Beijing, 2009

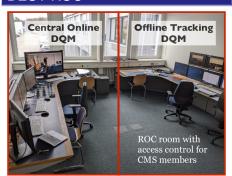


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Reactivating IHEP ROC in Consideration.

#### CMS ROC Status

#### **DESY ROC**



Two shifts workspaces

#### **FNAL ROC**



Eight shifts workspaces

photos from CMS ROC managers

CMS recently re-setup the ROC qualification procedure.



## **Necessity**

- Central shifts are essential for the well-being of CMS experiment.
- Geographic limit sometime constraining CMS collaborators from answering Point 5's call for shifters.
- Funding, cross continents transportation, *et cetera* make operation at a ROC be an acceptable option for many collaborators.
- Will an active IHEP ROC be welcomed also by CMS management?
- Will an active IHEP ROC be helpful for CMS China community?

### **Timelines**

- September 2022, remote trigger shift at IHEP ROC.
- March 2023, IHEP ROC room refitted.
- April 2023, CMS management being in contact.
- May 2023, chat with IHEP Computing Center.
- May 2023, chat with CMS management (EO).
- June 2023, purchasing new IT facilitates.
- July 2023, chat with CMS ROC managers.
- July 2023, New shifters at IHEP ROC.
- August 2023, ROC qualification list checked.
- September 2023, IHEP ROC status report to CMS management.
- December 2023, requesting meeting with CMS EO office for ROC qualification. Facilities upgrade.

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January 2024, be prepared for 2024 data taken year.

### Requirements and Qualification Procedure

- A well-defined location enabling shifts to take place quietly, safely and without interruptions.
- A dedicated person must be assigned who is responsible for the local remote shift operation from the ROC.
- An overall amount of >=50 shifts must be carried out per ROC, per year during a typical physics data taking year.

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google document author: Kaori Maeshima



## Person-powers

#### IHEP local contact person

Ye Chen

#### Computing support

Xuantong Zhang (Computing Center, IHEP)

#### New Shifters from

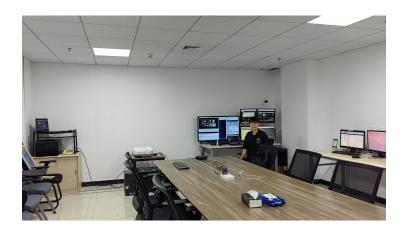
- Beihang University.
- Nanjing Normal University.
- Tsinghua University.
- ...

Around 30 trigger shifts being taken at IHEP ROC in 2023.

## Facilitates

system	item	num	Туре	status	comment
ROC	Room	1		good	38.82 m <sup>2</sup>
	workspace	2		good	to be upgraded in Dec. 2023
Operation	PC	1	Dell	good	2023
	Monitor	4	Dell	good	to be upgraded in Dec. 2023
Training/Backup	PC	1	Dell	good	2023
	Monitor	2	AOC and HP	good	to be upgraded in Dec. 2023
Communication	PC	1	Dell optical	good	to be upgraded in Dec. 2023
	Monitor	1	Xiaomi	good	40
	Webcam	1		good	
	VVCDCam				
	speaker	1		good	2023
Communication 2		1	Lenevo	good good	2023 with ZOOM
Communication 2 Communication 3	speaker	<u> </u>	Lenevo		
	speaker Desktop	1	Lenevo Huawei	good	with ZOOM
Communication 3	speaker Desktop phone	1		good	with ZOOM +86 10 8823 6988
Communication 3	speaker Desktop phone	1		good	with ZOOM +86 10 8823 6988

## 2023 Trigger Shifts at IHEP ROC



28/08/2023, trigger shift workstation, IHEP ROC

## Acknowledgments for IHEP ROC Reactivation

- Zhicheng Tang
- Xuantong Zhang, and IHEP Computing Center
- Hongjuan Xu, and IHEP EPC secretaries
- CMS Secretariat
- CMS Management
- CMS Engagement Office
- CMS Run Coordination
- CMS Trigger Coordination
- CMS ROC Managers
- CMS PPD DQM DC Coordination
- CMS Shifters
- CMS China Institutes
- CERN Service Desk
- CMS IHEP Group



### **Outlook**

- Certificated as an official CMS ROC for Trigger Shift.
- DQM shift workspace in the same room might be added in the coming years.
- At least 50 shifts per year at IHEP ROC.
- We are looking forward to hosting CMS shifts at IHEP ROC.

# Thanks for your attention!