



Meeting Agenda

1. Meeting Theme:

The TRIDENT Winter Collaboration Meeting of 2024
Simulation Workshop

2. Date and Time:

Nov 29 to Dec 1, 2024

3. Location:

Meeting Room N102, TDLI
1 Lisuo Road, Pudong New Area, Shanghai 201210, China

4. Participants:

All members of TRIDENT (including students at all levels)

5. Background:

The TRIDENT Winter Collaboration Meeting of 2024 will cover four topics: **ocean engineering, hDOM and vertical string developments, electronics and DAQ, detector simulation and reconstruction**. All members of TRIDENT collaboration are cordially invited to attend and present their works at the meeting to facilitate thorough exchanges at the various development fronts.

6. Agenda Items:

Nov 29

Convener: Xin Xiang

Time	Agenda	Presenter
08:00 - 09:00	On-site Registration	
09:00 - 09:30	Opening and Project Overview	Donglian Xu
09:30 - 10:00	Recent progress on the design of the launching vehicle for the hDOM string	Xiaoxian Guo
10:00 - 10:30	A Brief Introduction of the Design and Coupled Analysis of the Power Buoy	Xiantao Zhang
10:30 - 10:35	Group Photo at 1 st floor of sphere hall	
10:35 - 11:00	Coffee Break	
11:00 - 11:30	Progress in OTN system and Mechanical Ropes	Hao Liu
11:30 - 12:00	TRIDENT Acoustic Localization and Fluid-Structure Interaction Simulation	Handi Wei



12:00 - 13:30	Lunch	
13:30 - 14:00	High-precision Acoustic Positioning Techniques in Deep-sea	Jingguang Cheng
14:00 - 14:30	Trigger and Data Acquisition System	Hualin Mei
14:30 - 15:00	Coffee break	
15:00 - 15:30	White Rabbit Time Synchronization	Guanghua Gong
15:30 - 16:00	MuonSLab for T- REX 2024	Hualin Mei Jiacheng Wu
16:00 - 16:30	Camera DOM for T- REX 2024	Haoyan Zhang
17:30 - 20:00	Banquet: Buffet at Victoria Cafe Add: No. 2299, Zuchongzhi Rd, Pudong New Area, Shanghai	

Nov 30

Convener: Xin Xiang

Time	Agenda	Presenter
09:00 - 09:30	hDOM Overview	Xin Xiang
09:30 - 10:00	Progress of a 125MS/s Readout Board for PMT Waveforms	Yong Yang (online)
10:00 - 10:30	Progress on SiPM readout electronics of TRIDENT hDOM	Wei Zhi
10:30 - 11:00	Coffee break	
11:00 - 11:30	Electronics for PMT Base	Lei Wang (online)
11:30 - 12:00	Progress in hDOM Mechanical Design and Assembling	Jie Zheng
12:00 - 13:30	Lunch	
13:30 - 14:00	Simulation Overview	Iwan Morton-Blake
14:00 - 14:30	Modeling the Optical Response of Neutrino Telescope with Boltzmann Radiative Transfer Equation	Benda Xu (online)
14:30 - 14:50	Realistic Event Reconstruction in Phase-1	Qichao Chang
14:50 - 15:20	Coffee Break	
15:20 - 15:40	Tau Waveform Identification	Wei Tian
15:40 - 16:00	Update on Cascade Lab	Shuhua Hao
16:00 - 16:30	Muon Track with Plastic Scintillator	Tailin Zhu



Dec 1

Simulation Workshop

Convener: Iwan Morton-Blake

Time	Agenda	Presenter
09:00 - 09:45	Introduction to Simulation Framework	Iwan Morton-Blake
09:45 - 10:30	Event Generator (neutrino, atmospheric muon)	Qichao Chang Weilun Huang
10:30 - 10:50	Detector Simulation	Fuyudi Zhang Shuhua Hao
10:50 - 11:10	hDOM Simulation, Noise Simulation	Ruikao Cao Weilun Huang
11:10 - 11:20	Electronics Simulation	Wei Tian
11:20 - 12:00	Reconstruction (track, cascade)	Jingtao Huang Fuyudi Zhang
12:00 - 13:30	Lunch	

Tencent Meeting

ID: 186 700 183

PW: 123456

Link: <https://meeting.tencent.com/dm/ogFQzg2UBk3A>

7. Contact Information:

- Host: Xin Xiang
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8. Notes:

Please be punctual for all activities.

Keep your phone on silent or off during the meeting.

Contact the meeting organizer for any special requests or issues.