



Poster Awards

Peter Svihra, Jaroslav Zalesak (Poster review)
Oldrich Kepka, Barbara Trzeciak (Program Chairs)





282 poster overall, displayed
between Thursday to Saturday

Presentations of posters divided
to two days to give speakers
deserved space and attention





180 posters uploaded in advance
eligible for the award review

Judges were looking for well designed
posters, explained with enthusiasm,
with substantial personal contribution
by early career scientists

Many excellent posters from diverse
areas made the selection process of
the winners challenging!

Higgs Physics	12
Neutrino Physics	46
Beyond the Standard Model	26
Top Quark and Electroweak Physics	11
Quark and Lepton Flavour Physics	4
Strong Interactions and Hadron Physics	13
Heavy Ions	15
Astro-particle Physics and Cosmology	15
Dark Matter Detection	9
Formal Theory	5
Accelerator: Physics, Performance, and R&D for Future Facilities	8
Operation, Performance and Upgrade (incl. HL-LHC) of Present Detectors	56
Detectors for Future Facilities, R&D, Novel Techniques	18
Computing, AI and Data Handling	25
Education and Outreach	10
Equity, Diversity and Inclusion	2
Technology Applications and Industrial Opportunities	6
Sustainability (accelerators, detectors, computing)	1

Thank you to poster Session local organizers

Special thanks to Peter Svihra and Jarda Zalesak

Thank you to poster reviewers

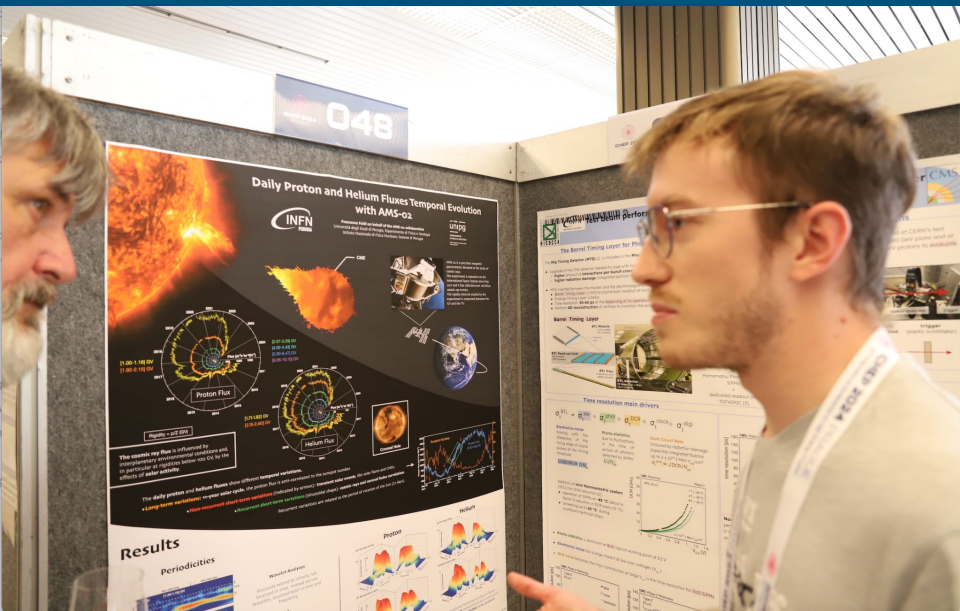
Didar Dobur, Donatella Lucchesi, Flavia De Almeida Dias, Andre David, Tinoco Mendes, Rogerio Rosenfeld, Martin Stahlberg, Ines Gil-Botella, Ana Amelia Machado, Jana Bielčíková, Saša Kupčo, Christopher Young, Damir Becirevic, Jim Libby, Kai Schweda

Thank you to all the poster presenters for preparing posters and sharing their excitement

Thank you to all who participated in poster sessions



Seven ICHEP 2024 Poster Awards




ICHEP 2024
 PRAGUE
 42nd International Conference
 on High Energy Physics
 July 18 - 24 2024 · Prague · Czech Republic

ICHEP 2024 Conference Organisers awards
Francesco Faldi
POSTER AWARD
 for the poster
**Unique Properties of
 Daily Proton Fluxes up to 100 GV**
 presented at
 the 42th International Conference on High Energy Physics,
 held in Prague, Czech Republic, 18-24 July 2024.


Zdeněk Doležal

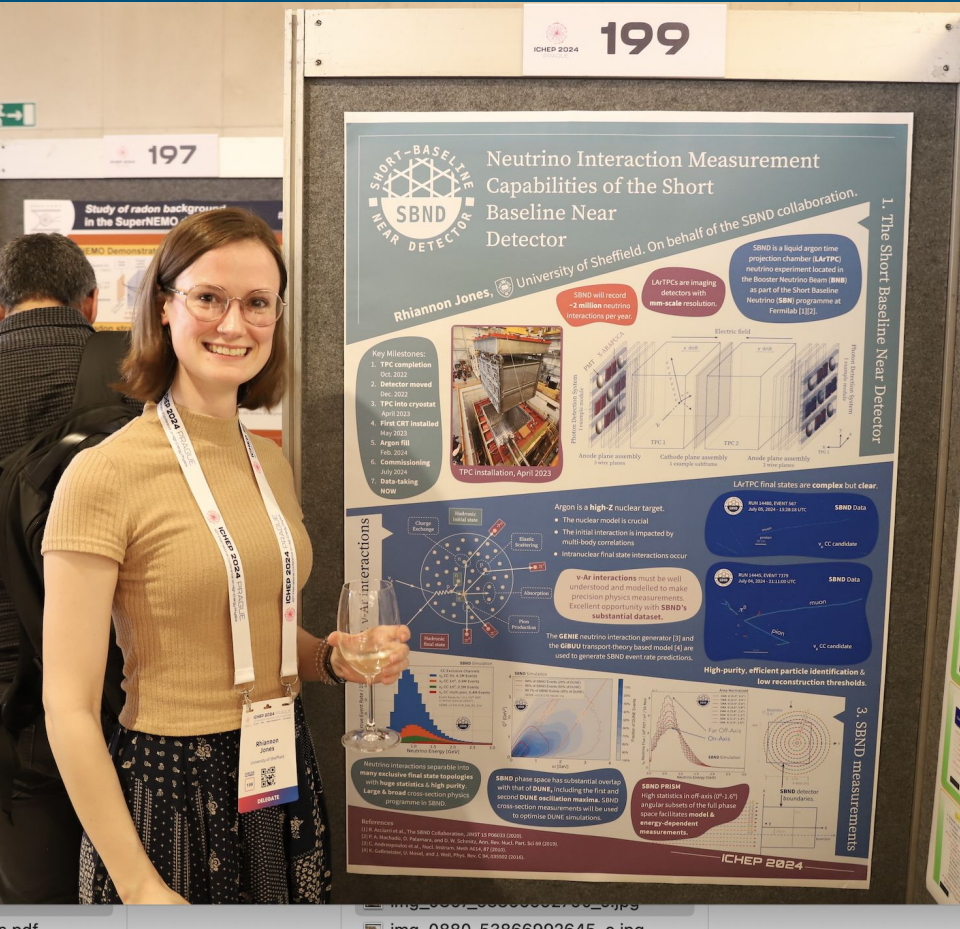
Zdeněk Doležal
Chair of ICHEP 2024



Tomáš Davídek

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Chair of ICHEP 2024





ICHEP 2024 **199**

Neutrino Interaction Measurement Capabilities of the Short Baseline Near Detector

Rhiannon Jones, University of Sheffield. On behalf of the SBND collaboration.

Key Milestones:

1. TPC completion Oct. 2022
2. Detector moved Dec. 2022
3. TPC into cryostat April 2023
4. First CRT installed May 2023
5. Argon fill Feb. 2024
6. Commissioning July 2024
7. Data taking Now

TPC installation, April 2023

TPC-1, TPC-2, TPC-3

SBND will record 2.5 million neutrino interactions per year

1. The Short Baseline Near Detector

SBND is a liquid argon time projection chamber (LArTPC) neutrino experiment located in the Booster Neutrino Beam (BNB) as part of the Short Baseline Neutrino (SBN) programme at Fermilab [1,2].

LArTPCs are imaging detectors with mm-scale resolution.

SBND will record 2.5 million neutrino interactions per year.

2. Neutrino Interactions

Argon is a high-Z nuclear target.

- The nuclear model is crucial
- The initial interaction is impacted by multi-body correlations
- Intranuclear final state interactions occur

ν-A interactions must be well understood and modelled to make precision physics measurements. Excellent opportunities with SBND's substantial dataset.

The GENIE neutrino interaction generator [3] and the GENIE transport theory based model [4] are used to generate SBND event rate predictions.

3. SBND measurements

High-purity, efficient particle identification & low reconstruction thresholds.

SBND phase space has substantial overlap with that of DUNE, including the first and second DUNE oscillation maxima. SBND cross-section measurements will be used to optimise DUNE simulations.

SBND PREM high statistics in off-axis (2°-2.5°) angular subsets of the full phase space facilitates model- and energy-dependent measurements.

SBND detector boundaries.

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Rhiannon Susan Jones

POSTER AWARD

for the poster

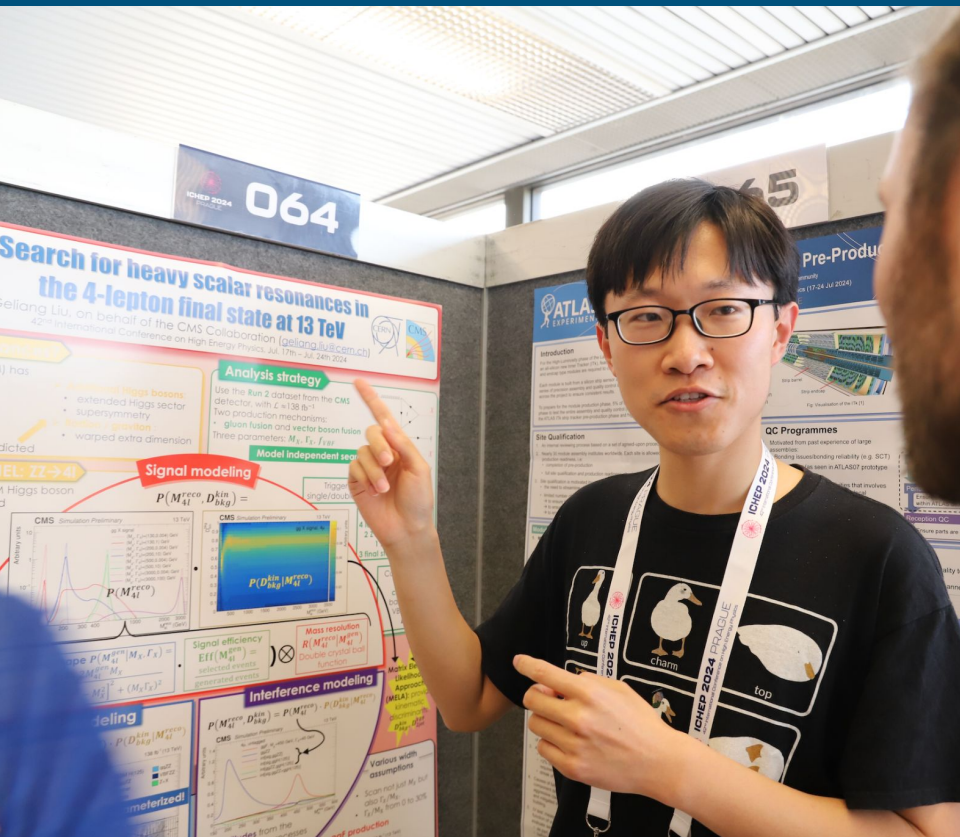
Neutrino Interaction Measurement Capabilities of the SBND Experiment

presented at

the 42TH International Conference on High Energy Physics, held in Prague, Czech Republic, 18-24 July 2024.

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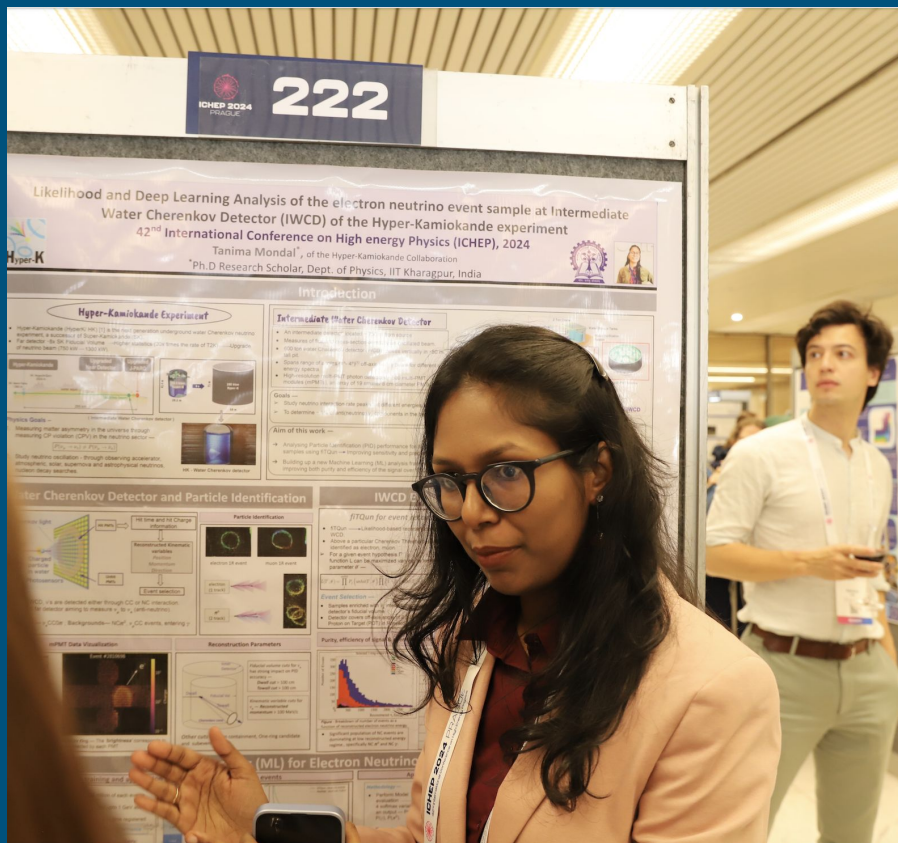
Geliang Liu
POSTER AWARD
 for the poster
**Search for heavy scalar resonances in
 the 4-lepton final state in the CMS experiment**
 presented at
 the 42th International Conference on High Energy Physics,
 held in Prague, Czech Republic, 18-24 July 2024.


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Tanima Mondal

POSTER AWARD

for the poster

**Likelihood and Deep Learning Analysis of the electron neutrino event sample at
Intermediate Water Cherenkov Detector (IWCD) of the Hyper-Kamiokande experiment**

presented at
the 42nd International Conference on High Energy Physics,
held in Prague, Czech Republic, 18-24 July 2024.


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David Borgelt

POSTER AWARD

for the poster

**International Masterclasses in Particles Physics -
expanding geographically and broadening in scope**

presented at
the 42th International Conference on High Energy Physics,
held in Prague, Czech Republic, 18-24 July 2024.

Zdeněk Doležal

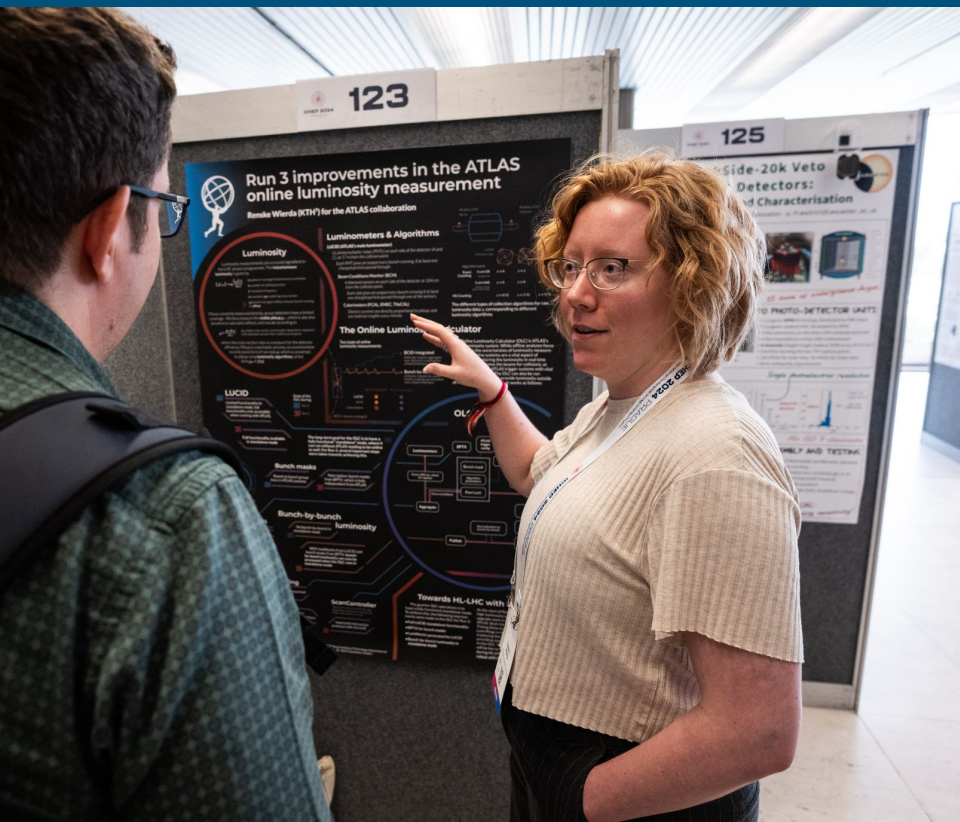
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Renske Wierda

POSTER AWARD

for the poster

**Run-3 improvements in the ATLAS
online luminosity measurement**

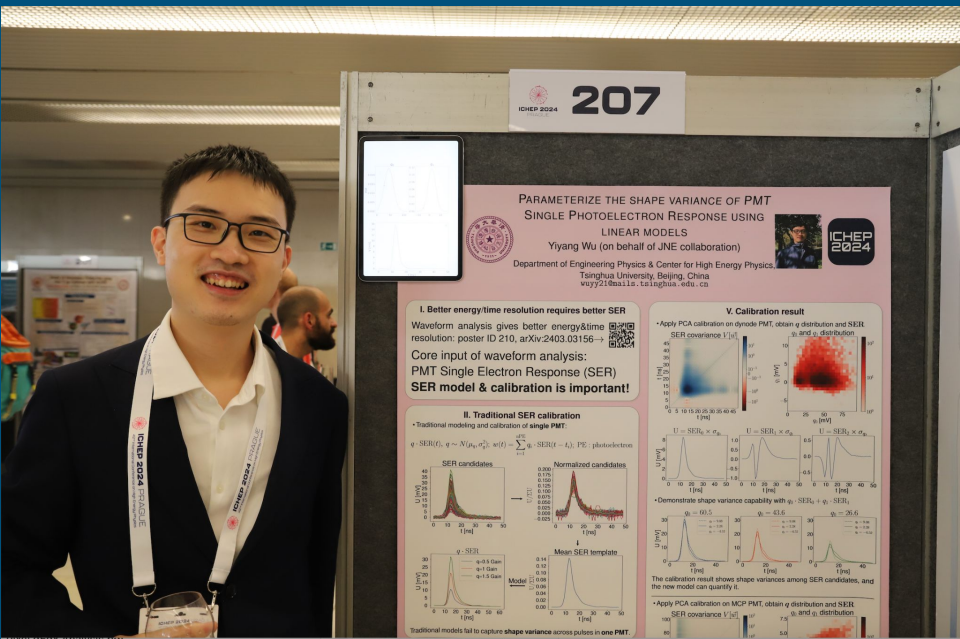
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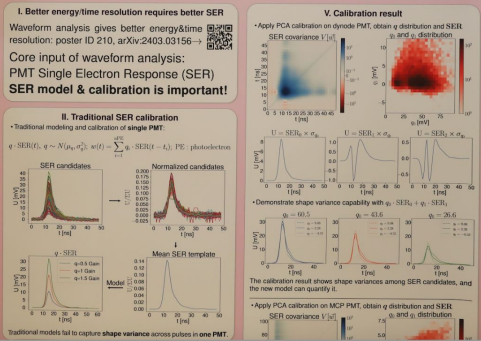

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ICHEP 2024 **207**

PARAMETERIZE THE SHAPE VARIANCE OF PMT SINGLE PHOTOELECTRON RESPONSE USING LINEAR MODELS
 Yiyang Wu (on behalf of JNE collaboration)
 Department of Engineering Physics & Center for High Energy Physics, Tsinghua University, Beijing, China
 wyy21@mails.tu-berlin.de, yw@hps.tu.tz.cn



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Yiyang Wu

POSTER AWARD

for the poster

**Parameterize PMT Single Photoelectron Response
 Shape Variance with linear models**

presented at

the 42th International Conference on High Energy Physics,
 held in Prague, Czech Republic, 18-24 July 2024.


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Congratulations!

