

GraphNeT Workshop V - Next Steps

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and Framing of workshop

Monday 18 August 2025 09:30 (15 minutes)

Presenter: PETERSEN, Troels (Niels Bohr Institute)

Contribution ID: 2

Type: **not specified**

GraphNeT: Status and Plans

Monday 18 August 2025 09:45 (30 minutes)

Presenter: ØRSØE, Rasmus (TUM)

Contribution ID: 3

Type: **not specified**

GraphNeT: Transformers and next steps

Monday 18 August 2025 10:15 (30 minutes)

Presenter: MOZÚN MATEO, Iván (LPC Caen)

Contribution ID: 4

Type: **not specified**

Technical requirements to reconstruction software in IceCube

Monday 18 August 2025 11:15 (30 minutes)

Presenter: SOLDIN, Philipp (RWTH Aachen University)

Contribution ID: 5

Type: **not specified**

GraphNeT as seen from a Magic point of view

Monday 18 August 2025 11:45 (30 minutes)

Presenter: GREEN, Jarred (Max Planck Institute for Physics)

Contribution ID: 6

Type: **not specified**

GraphNeT Community Discussion

The following questions are not exhaustive and simply meant to inspire discussion.

1. Which features should GraphNeT have?
2. How should we collaborate on GraphNeT?
3. Which results should GraphNeT contribute to?
4. How do we obtain these results?

Presenters: ØRSØE, Rasmus (TUM); PETERSEN, Troels (Niels Bohr Institute)

Contribution ID: 7

Type: **not specified**

Workshop Hackathon I

Monday 18 August 2025 15:00 (2 hours)

Communal coding, GitHub PR-training, discussions, and sharing.

Contribution ID: **8**

Type: **not specified**

Takeaways from training a foundation model for IceCube

Monday 18 August 2025 13:15 (30 minutes)

Presenters: TIMIRYASOV, Inar (NBI); TASTET, Jean-Loup (DIKU)

Contribution ID: 9

Type: **not specified**

All the technicalities: Databases, MC labels, and such stuff

Monday 18 August 2025 13:45 (30 minutes)

Presenter: ROSTED, Aske (Chiba University)

Contribution ID: **10**

Type: **not specified**

State of the Art in AstroPhysics research

Tuesday 19 August 2025 09:30 (30 minutes)

An overview of AstroPhysics with a focus on the role of neutrino telescopes

Presenter: AHLERS, Markus (NBI)

Contribution ID: **11**

Type: **not specified**

Plenary Talk

Contribution ID: **12**

Type: **not specified**

GraphNeT as seen from an analyser and software perspective

Tuesday 19 August 2025 10:00 (30 minutes)

Presenter: STUTTARD, Tom (Niels Bohr Institute, IceCube)

Contribution ID: 13

Type: **not specified**

GraphNeT from a student user point of view

Tuesday 19 August 2025 11:00 (30 minutes)

Presenter: JO, Cyan Yong Ho (NBI)

Contribution ID: **14**

Type: **not specified**

GraphNeT seen from a larger (KM3net) perspective

Tuesday 19 August 2025 11:30 (30 minutes)

Presenter: VACHERET, Antonin (LPC Caen)

Contribution ID: 15

Type: **not specified**

Workshop Hackathon II

Tuesday 19 August 2025 15:00 (45 minutes)

With focus on the 4 questions from the communal discussion

Contribution ID: **16**

Type: **not specified**

Summary and Organisation of Plans

Tuesday 19 August 2025 15:45 (30 minutes)

Contribution ID: **17**

Type: **not specified**

Plenary Talk - Dreams of Future Physics with GraphNeT

Contribution ID: **18**

Type: **not specified**

Introduction to Hackathon & Implementation discussion

Monday 18 August 2025 14:15 (15 minutes)

Presenter: PETERSEN, Troels (Niels Bohr Institute)

Contribution ID: **19**

Type: **not specified**

GraphNeT Issues and Wishes

Tuesday 19 August 2025 13:00 (30 minutes)

Presenter: PRADO GONZÁLEZ, Jorge (KM3NeT - IFIC/CSIC - Universidad de Valencia)

Contribution ID: **20**

Type: **not specified**

GraphNeT Community Discussion

Tuesday 19 August 2025 13:30 (1 hour)

The following questions are not exhaustive and simply meant to inspire discussion.

1. Which features should GraphNeT have?
2. How should we collaborate on GraphNeT?
3. Which results should GraphNeT contribute to?
4. How do we obtain these results?

Presenters: MOZÚN MATEO, Iván; PRADO GONZÁLEZ, Jorge; ØRSØE, Rasmus (TUM)