

Welcome to DFT2025

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Third Workshop on Density Functional Theory: Fundamentals, Developments, and Applications

Integrated Innovation Building (IIB), RIKEN Kobe Campus, Kobe, JAPAN



First DFT Workshop (DFT2022)

- Held at Yukawa Institute, Kyoto U. (2022-12-07–2022-12-20)
- 13 invited seminars (both from cond. matt. and nucl. phys.)
- 16 contributed talks (both from cond. matt. and nucl. phys.)

Second DFT Workshop (DFT2024)

- Held at RIKEN Kobe (2024-02-20–2024-02-22)
- 6 invited seminars (from cond. matt., nucl. phys., and math)
- 18 contributed talks (both from cond. matt. and nucl. phys.)

Third DFT Workshop (DFT2025) ← **This Workshop!!**

- Held at RIKEN Kobe (2025-03-25–2025-03-27)
- 5 → 4 invited seminars (from cond. matt. and nucl. phys.)
- 20 contributed talks and 10 posters!!
(both from cond. matt. and nucl. phys.)

Invited Seminars in This DFT Workshop (DFT2025)

Shuichiro Ebata DFT application on nuclear dynamics

Atsushi Hariki DFT-Based Quantum Embedding Approaches
for X-ray Spectroscopy Calculations

Masayuki Matsuo TDDFT in nuclear physics—Cancelled

Kosuke Nakano Recent developments and Future Perspectives of
ab initio Quantum Monte Carlo Methods

Kazuhiro Yabana TDDFT for extremely nonlinear optics

Invited seminars are, again, interdisciplinary

→ Any questions and discussions are highly welcome!

Announcements

- For onsite participants, please **use microphone for discussion** (if possible); otherwise the discussion cannot be broadcast
- For online participants, please **mute your microphone** besides you ask a question
- **Questions are highly welcome** during all the seminars
- **Contributed talk**: 15 min. talk & 5 min. discussion
- **This afternoon**: Free discussion session
→ Poster presentation is strongly recommended
- **Photo session**: Wednesday (after Workshop session 3)
- When you enter IIB building, please show your name tag
- Please upload your slides after your talk to share