



京都大学

KYOTO UNIVERSITY



YUKAWA INSTITUTE FOR
THEORETICAL PHYSICS



“Nucleosynthesis and **Evolution** of Neutron stars”

「中性子星の**進化**と元素合成」

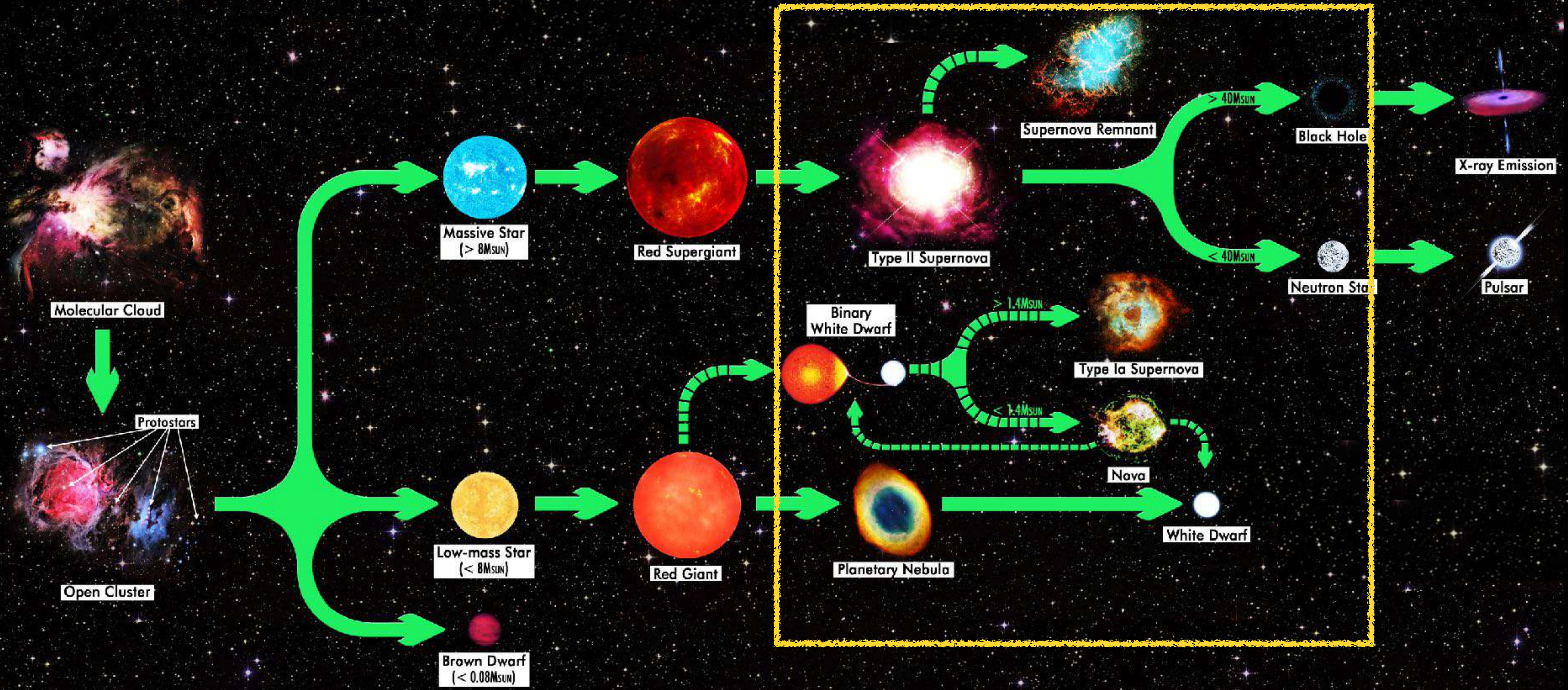
Organizers:

A. Dohi, E. Kido, T. Naito (co-chair), M. Kitazawa,
N. Nishimura (co-chair), T. Tamagawa, H. Yamaguchi



Evolution: Stellar Life Cycle

illustration: wikipedia



Birth

Main Sequence

Old Age

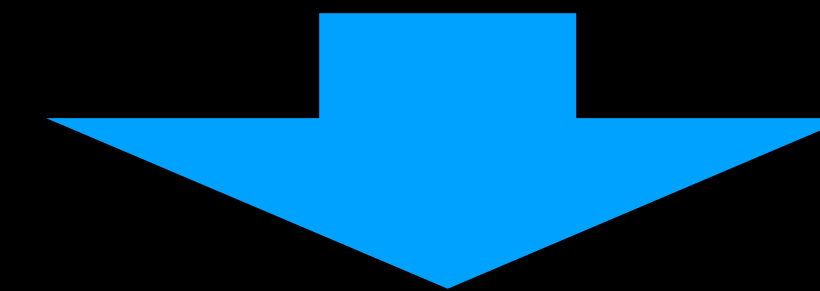
Death

Remnant

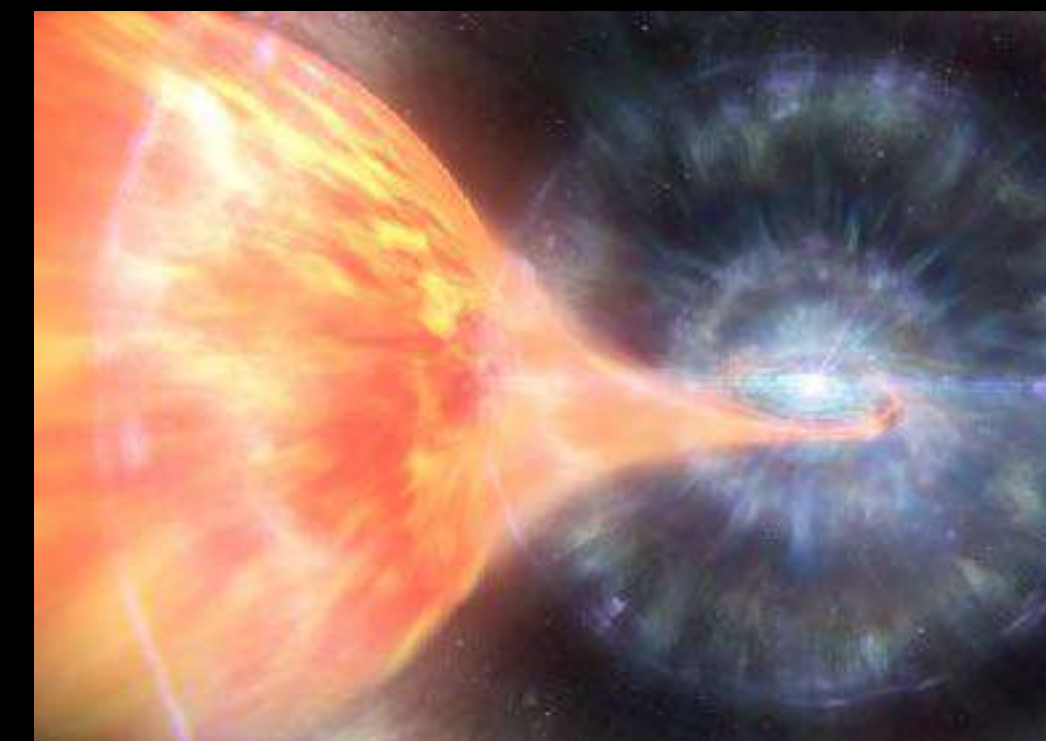
Death of Stars?: “second” Evolution

Compact Objects

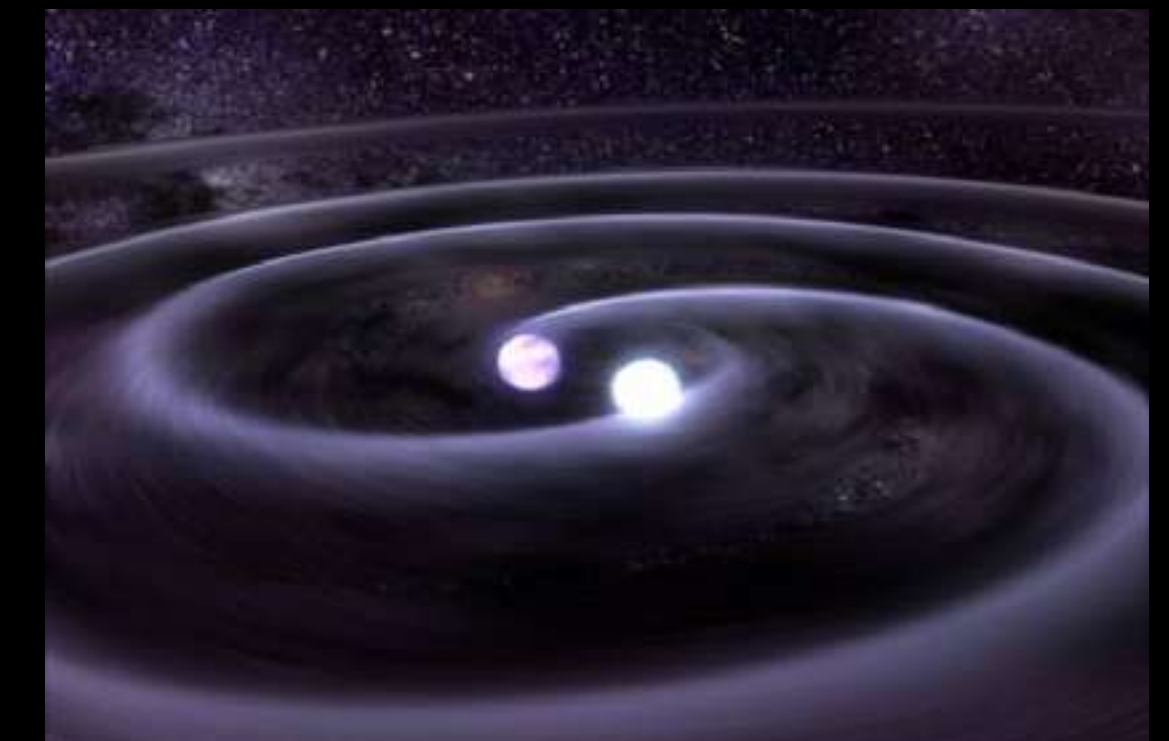
- white dwarfs
- **neutron stars**
- black holes



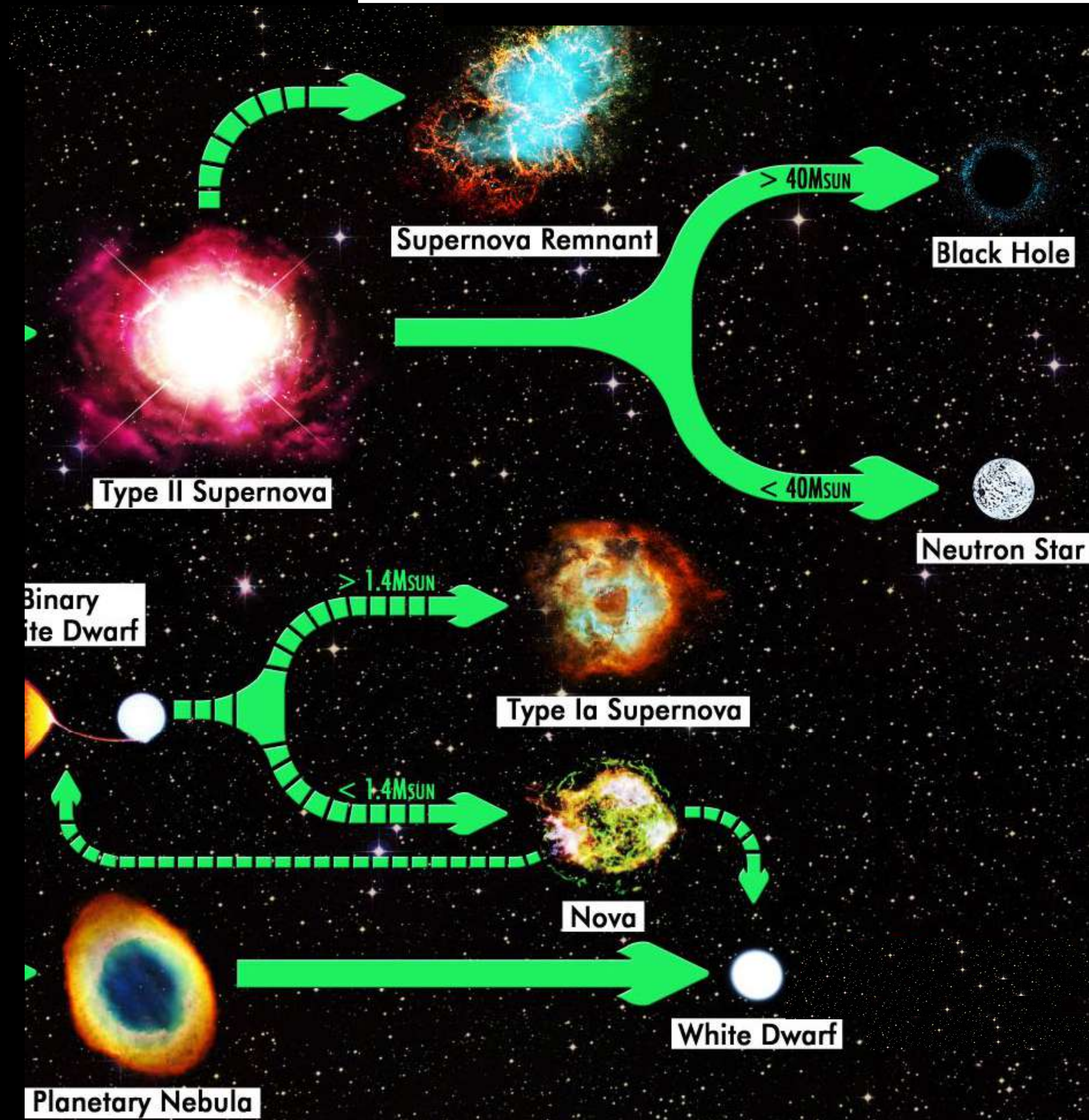
- thermal **evolution** (exotic matter)
- binary-system **evolution**



credit: RIKEN



credit: NASA



Topics

[Topics (Scientific Sessions)]

- Stellar evolution, supernovae, and formation of compact objects
- X-ray and other astronomical observation
- High-energy astrophysics and cosmic rays
- Hydrostatic and explosive nucleosynthesis
- Nuclear physics in neutron stars: Equation of states (EoS), fusion reactions, and radioactive decay
- Neutron stars and fundamental physics
- Other related topics in nuclear astrophysics

Nuclear astrophysics: an interdisciplinary atmosphere in discussions

- Astronomers and Astrophysics theorists
- Nuclear physics: experimentalist and theorist

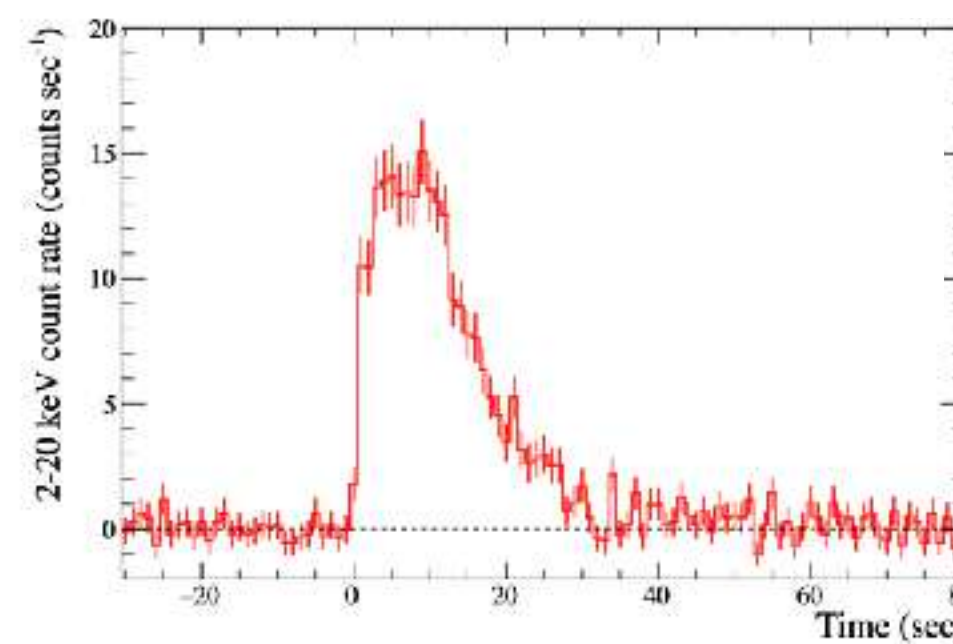
accelerator



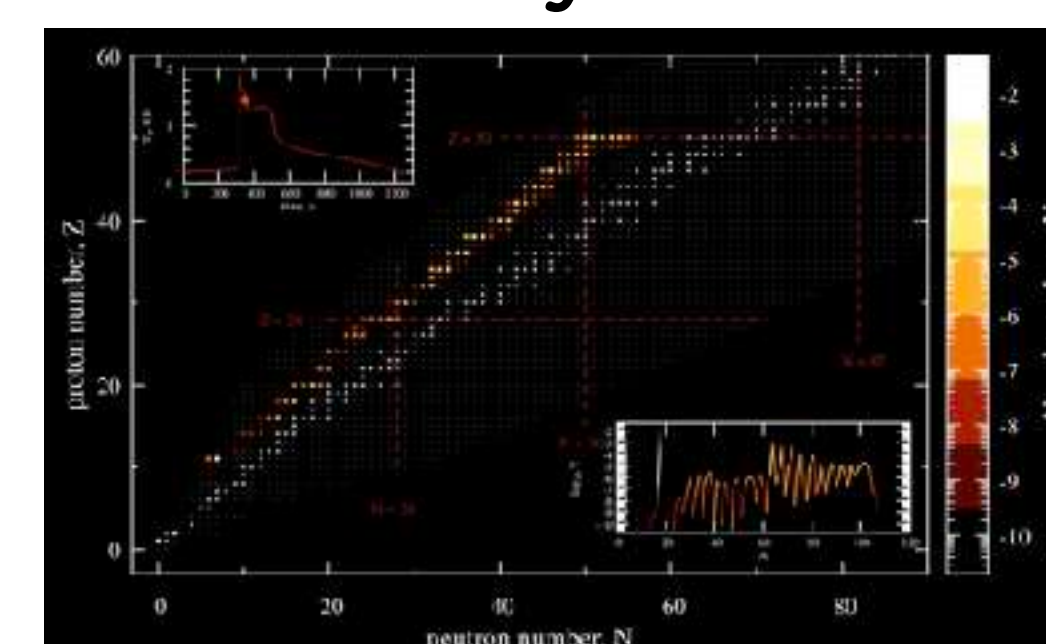
X-ray satellight



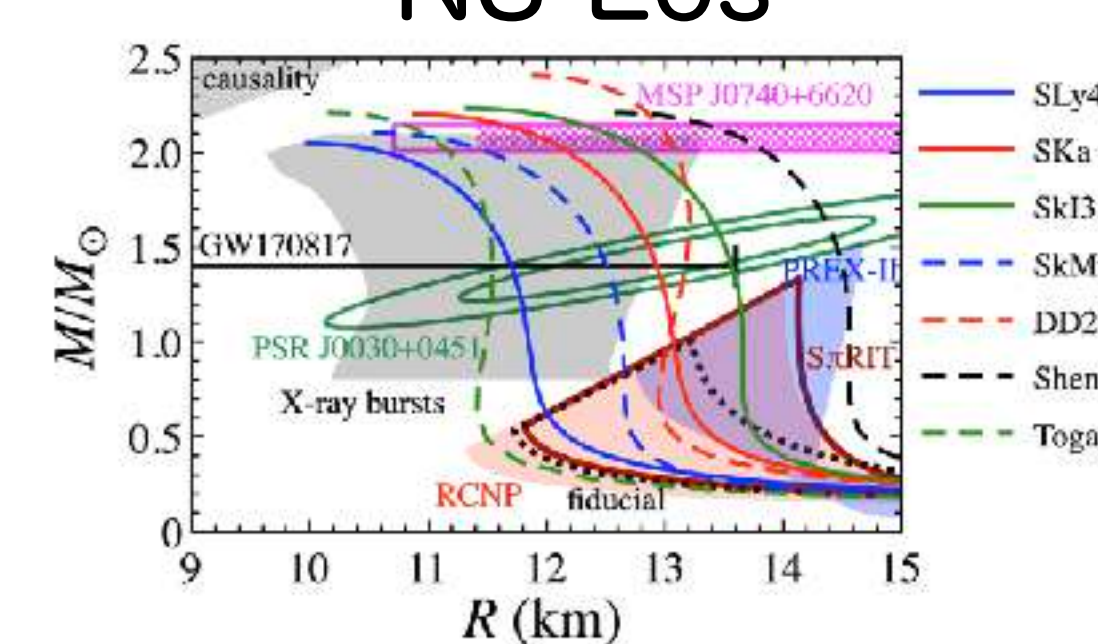
observation



nucleosynthesis



NS Eos



Note on the Venu

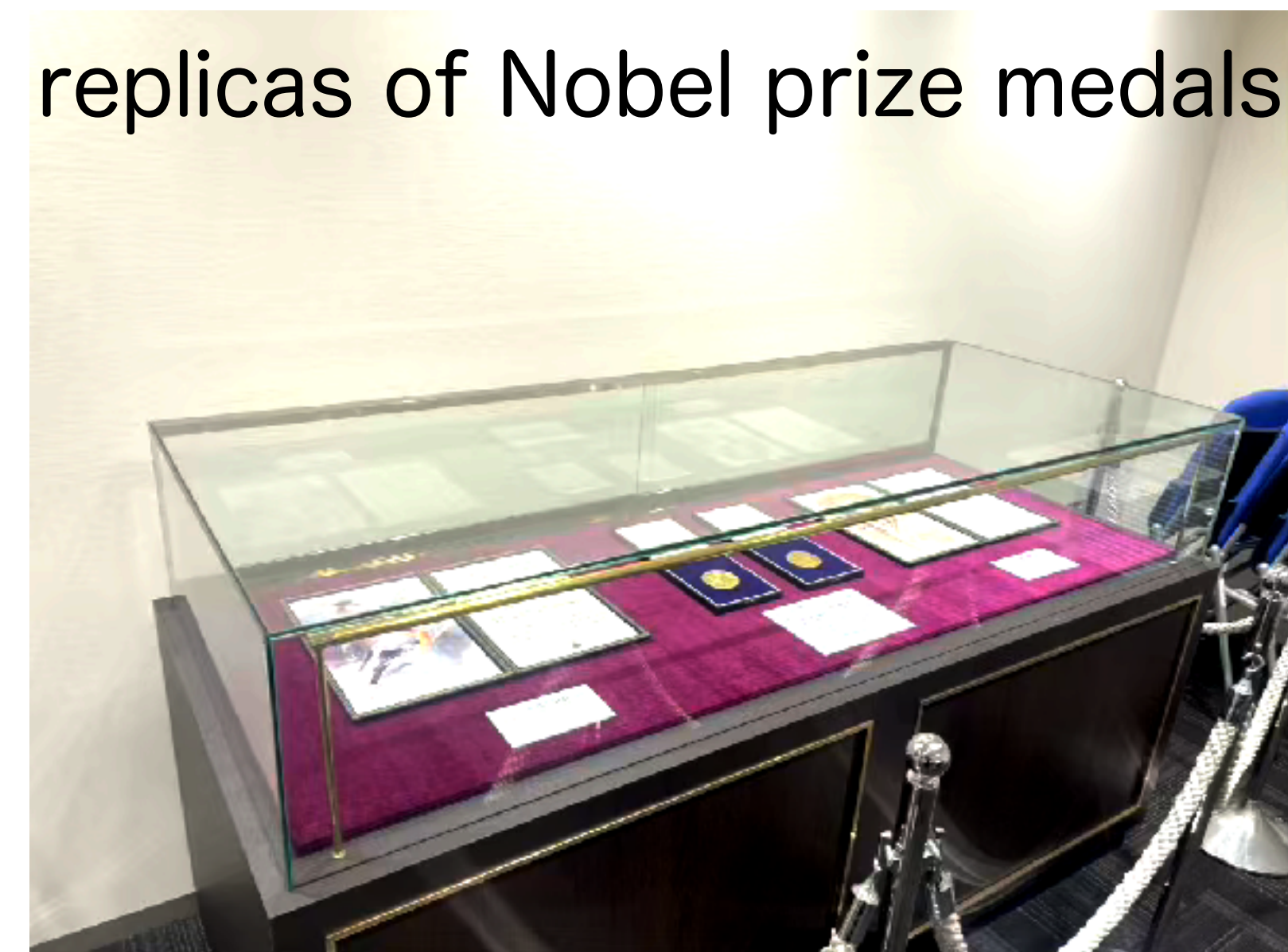
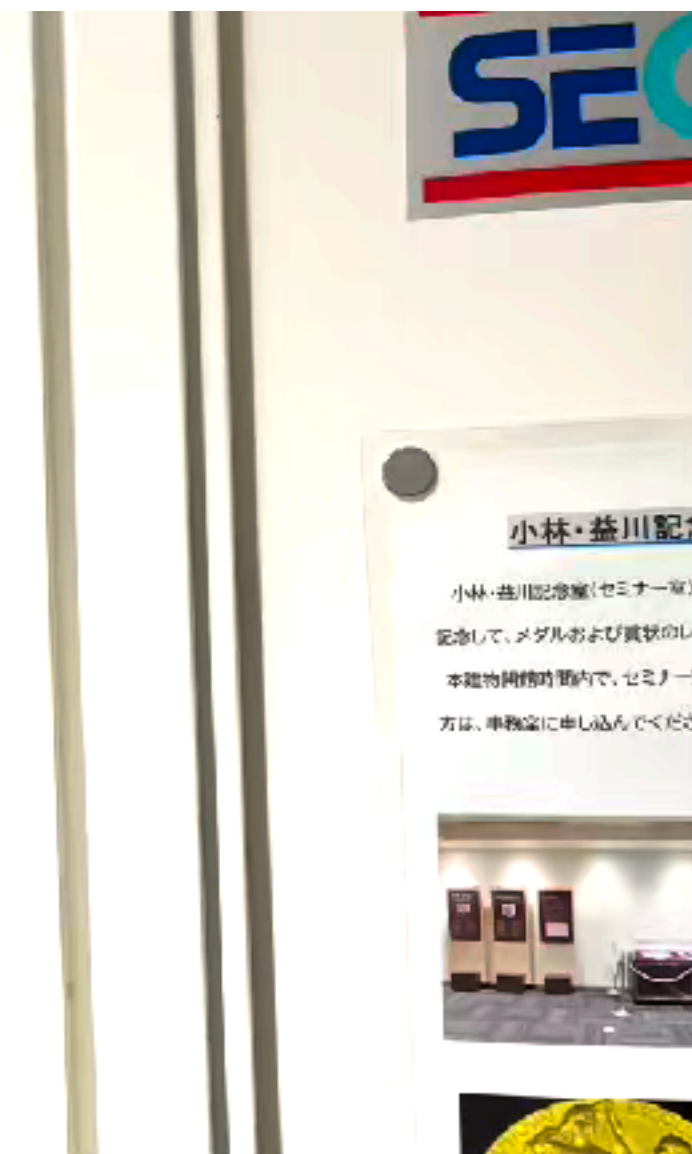


Maskawa Hall

- NO Food
- NO Drinks

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- coffe break
- poster presentation



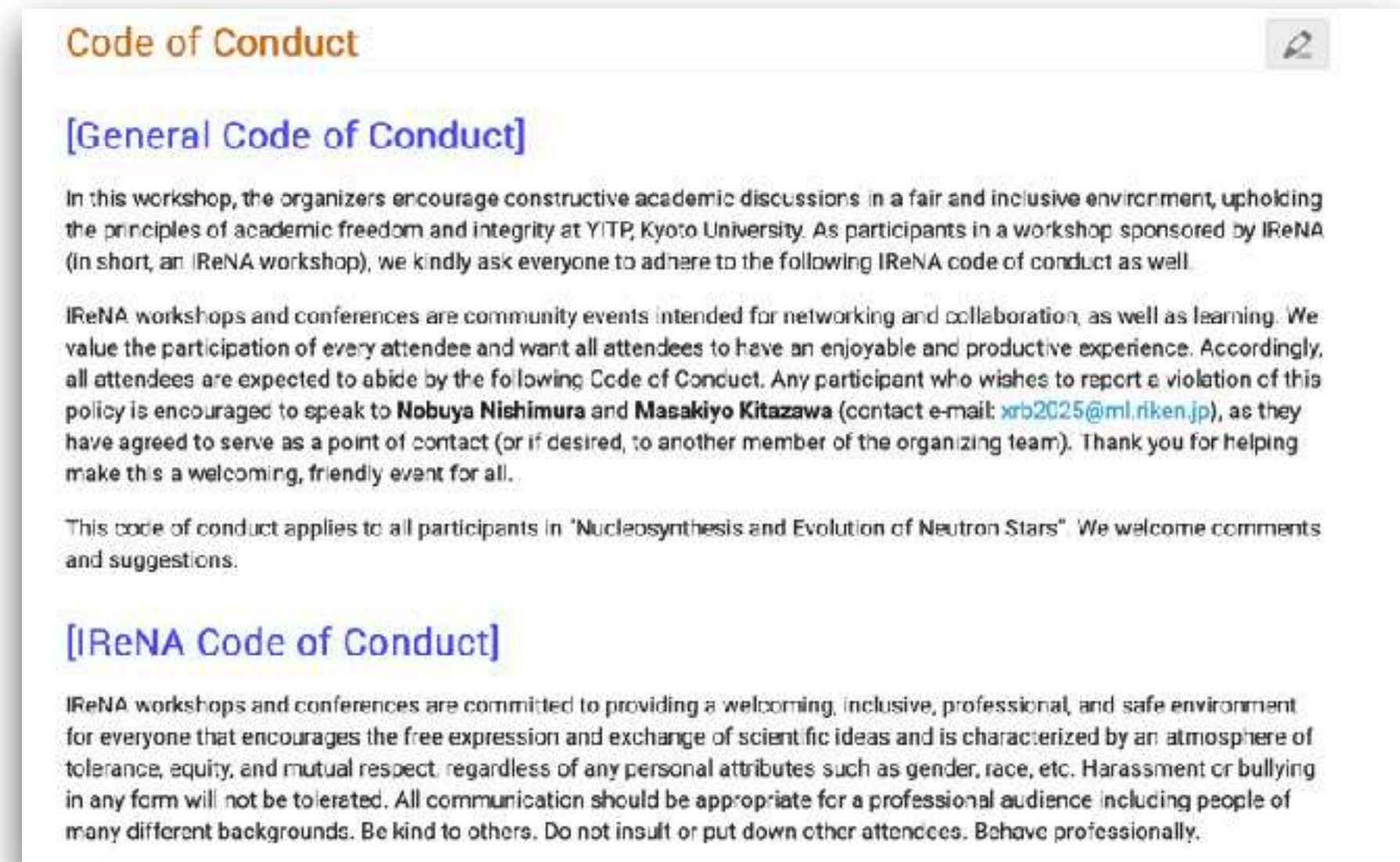
replicas of Nobel prize medals

Code of Conduct

All participants must not

- engage in harrasment
- exhibit bullying behavior
- disrupt event actitivies
- ignore wornings by oorganizers
- etc

workshop
website



Contact:

Nobuya Nishimura (CNS, U tokyo) & Masakiyo Kitazawa (YITP, Kyoto)
or e-mail to xrb2025ml.riken.jp

* If you wish to report **sensitive matters**, including sexual harassment, **to a female contact**, please feel free to reach out to us. We will arrange for a female contact person at YITP or Kyoto University to assist you.

Supports



- YITP, Kyoto University
secretary: Yayoi Yagi



- IReNA



- Foundation for Promotion of Astronomy



- CNS, The University of Tokyo



- UAKAKUREN (宇宙核物理連絡協議会)

Banquet

Former Head Office
of Forest Research Station

旧演習林事務室



Maskawa building

