

Extreme Universe

The 3rd **public COLLOQUIUM**

February 6th (Thu.) ONLINE

TALK 17:00 - 19:00 (JST)

February 6th (Thu.) 8:00 - 10:00 (UTC)

ONLINE **CHAT TIME**

19:00 - 20:00 (JST)

Registration required (click [HERE](#))

Extreme Universe, JAPAN

MEXT -KAKENHI- Grant-in-Aid for Transformative Research Areas (A)
The Natural Laws of Extreme Universe -A New Paradigm for Spacetime and Matter from Quantum Information-

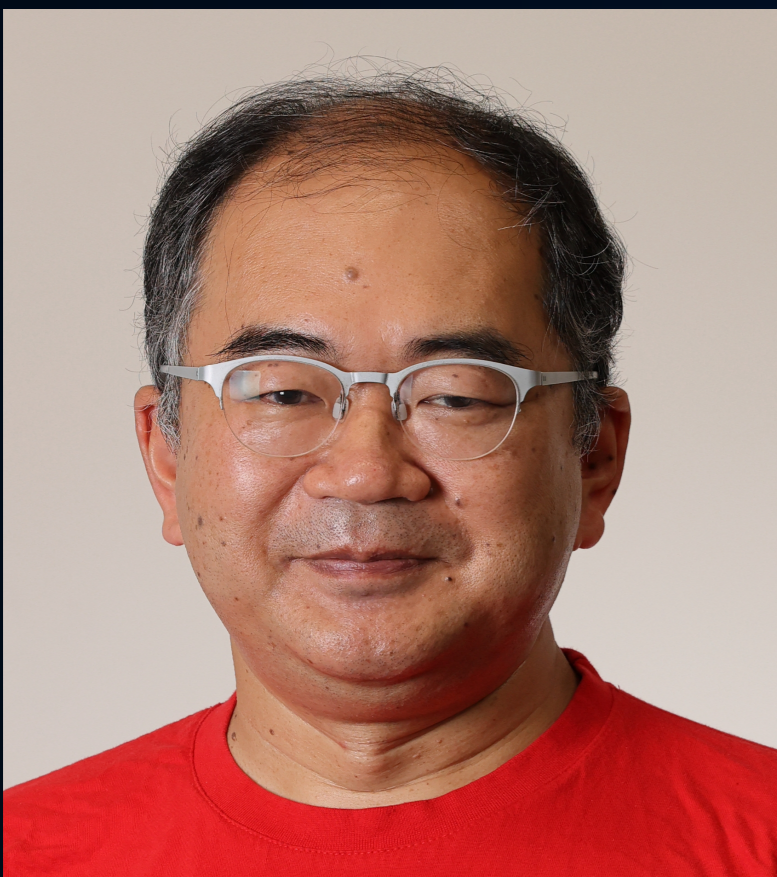
Collaboration



Part I **Prof. Hal Tasaki**

Gakushuin University

Haldane conjecture, valence-bond picture, SPT phases, and all that in quantum spin chains



Part II **Prof. Masaki Oshikawa**

ISSP, The University of Tokyo

Symmetry-Protected Topological phases and Duality



In memory of Prof. Ian Affleck

2025