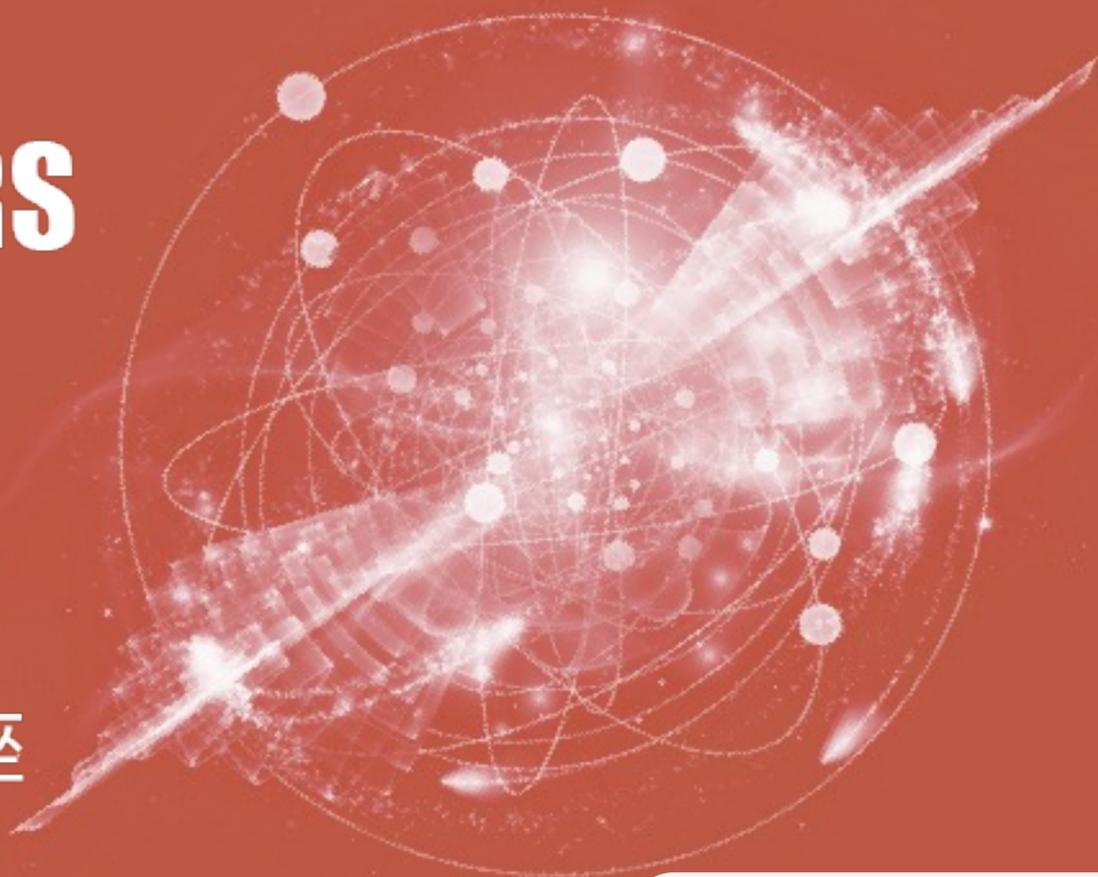


# LECTURES ON FRONTIERS OF QUANTUM MATTERS

量子物质前沿讲座



清华大学  
Tsinghua University

TITLE |

**Modular Hamiltonian in  
QFT and AdS/CFT**

SPEAKER |

**Huajia Wang (KITS)**



TIME |

10:30-12:00 Feb 22, 23, 24 (2023)



VENUE |

Room 322, Science Building  
Tsinghua University

**主办方：清华大学高等研究院**

ABSTRACT

Recent progress has shown that many deep aspects of QFTs are encoded in the underlying entanglement structures. A particularly useful probe of the entanglement structures is the object named modular Hamiltonian.

In these lectures I will review the general properties and structures of the modular Hamiltonian; I will also discuss a few examples of their applications in understanding subtle aspects of QFTs and AdS/CFTs.