# Schedule

| Jan 9 Afternoon Session | |
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Regeneration

| Jan 10 Morning Session | |
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| **Time** | **Title** |
| **08:00-10:00** | **Tutorial 1: 2024年诺贝尔奖漫谈：从伊辛模型到神经网络，再到量子纠错**<br>**Pan Zhang (张潘)** |
| **10:00-10:30** | **Coffee Break** |
| **10:30-12:30** | **Tutorial 2: 从经典神经网络到量子神经网络**<br>**Peng Zhang (张鹏)** |
| **12:30-13:30** | **Lunch** |
| Jan 10 Afternoon Session | |
| **13:30-15:30** | **Tutorial 3: 量子神经网络的演进**<br>**Ding Liu (刘丁)** |
| **15:30-16:00** | **Coffee Break** |
| **16:00-18:00** | **Tutorial 4: 用生成模型解决物理问题**<br>**Lei Wang (王磊)** |

| Jan 11 Morning Session | |
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| **Time** | **Title** |
| **09:00-09:30** | 量子智能计算：机遇与挑战<br><br>**Gang Su (苏刚)** |
| **09:30-10:00** | 量子机器学习：从线路设计到系统应用<br><br>**Junchi Yan (严骏驰)** |
| **10:00-10:20** | **Coffee Break** |
| **10:20-10:50** | **TBA**<br><br>**Xiaoming Sun (孙晓明)** |
| **10:50-11:20** | **Bridging Theory and Practice：Implementing Quantum Machine Learning on Real Quantum Processors**<br><br>**Tao Xin (辛涛)** |
| **11:20-11:50** | **Power and Limitations of Parameterized Quantum Circuits**<br><br>**Xin Wang (王鑫)** |
| Jan 11 Afternoon Session | |
| **13:00-13:30** | 高精度高速度的量子纠错码解码算法研究<br><br>**Lingling Lao (劳玲玲)** |
| **13:30-14:00** | **Quantum Computation on qLDPC Codes**<br><br>**Ying Li (李颖)** |
| **14:00-15:30** | **Poster Session** |
| **15:30-16:00** | **Randomized Benchmarking for Characterizing and Forecasting Correlated Processes**<br><br>**Chu Guo (郭楚)** |
| **16:00-16:30** | **Quantum Advantage for Near-term And Fault-tolerant Quantum Computers**<br><br>**Xiao Yuan (袁骁)** |
| **16:30-17:00** | 精确量子查询算法的优势<br><br>**Shenggen Zheng (郑盛根)** |

| Jan 12 Morning Session | |
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| **Time** | **Title** |
| **09:00-09:30** | **Quantum Computation and Artificial Intelligence for Electronic Structure**<br>**Zhenyu Li (李震宇)** |
| **09:30-10:00** | **AI驱动的功能性新材料发现方法**<br>**Zefeng Gao (高泽峰)** |
| **10:00-10:20** | **Coffee Break** |
| **10:20-10:50** | **AI+Quantum Science**<br>**Jinpeng Liu (刘锦鹏)** |
| **10:50-11:20** | **自旋轨道力矩磁性隧道结真随机数发生器和概率人工神经网络应用**<br>**Caihua Wan (万蔡华)** |
| **11:20-11:50** | **Pauli Basis and the Complexity of Noisy Variational Quantum Algorithms**<br>**Song Cheng (程嵩)** |
| Jan 12 Afternoon Session | |
| **13:00-13:30** | **Auxiliary-free Replica Shadow Estimation**<br>**You Zhou (周游)** |
| **13:30-14:00** | **Quantum Kernel Function Expansion for Digital Quantum Simulations of Thermodynamics**<br>**Xiaopeng Li (李晓鹏)** |
| **14:00-15:30** | **Poster Session** |
| **15:30-16:00** | **Exploratory Studies on the Interaction Between Tensor Networks and Neural Networks**<br>**Zhiyuan Xie (谢志远)** |
| **16:00-16:30** | **Quantum State Tomography with Locally Purified Density Operators and Local Measurements**<br>**Shuo Yang (杨硕)** |
| **16:30-17:00** | **Machine Learning and Nonequilibrium Dynamics**<br>**Ying Tang (汤迎)** |