

PHY 2205 Quantum Measurement: Final Seminars (week of 1 April 2024)

all presentations are 15 minutes long, followed by 5 minutes for questions/discussion.

The Tuesday, Thursday, & Friday presentations will be in MP 606;

Monday's, however, will be in MP 408.

- Monday 1 April, 2:10-3:00 pm [MP 408]
2:10 – 2:25 : Aiden Rosenbush "The Mean King's Problem"
2:30 – 2:45 : Kai-Sum Chan "Quantum Error Correction and GKP states"
- Tuesday 2 April, 4:10-5:10 pm [MP 606]
4:10 – 4:25 : Zou Xiang "How does LIGO use squeezed quantum states to surpass the Heisenberg limit?"
4:30 – 4:45 : Pria Dobney "Spin squeezing in atomic clocks"
- Thursday 4 April, 4:10-5:10pm [MP 606]
4:10 – 4:25 : Noah Baker "Bell's Theorem using GHZ States: The Algebraic Proof and Experimental Demonstration"
4:30 – 4:45 : Rui Jie Tang "Quantum discord as a quantum resource"
4:50 – 5:05 : Lorenz Nieman "Quantum Darwinism: Emergence of classicality from the quantum realm"
- Friday 5 April, 4:10 pm-5:10pm [MP 606]
4:10 – 4:25 : Nicholas Sullivan "How to consistently treat interactions between classical and quantum systems"
4:30 – 4:45 : Tanmay Grover "Toric codes and quantum error correction"