Joynt Fest: From Electron Correlations to Quantum Computing

Thursday, May 16 | 2241 Chamberlin Hall

Morning Session (8:45am-noon)

8:45-9:00 **Opening Remarks**

9:00-9:30 **Mark Eriksson** (UW–Madison)
Bob Joynt: more than 20 years of quantum science and technology

9:30-10:00 **Sankar Das Sarma** (University of Maryland)
The 25 year continuing search for non-Abelian Majorana zero modes and topological quantum computation

10:00-10:30 **Charles Tahan** (University of Maryland)
What's neqst?

10:30-11:00 **Coffee Break**

11:00-11:30 **Susan Coppersmith** (University of New South Wales)
Optimizing silicon/silicon-germanium quantum dot qubits

11:30-12:00 **Kenneth Rudinger** (Sandia)
Making quantum computers less broken

Lunch (noon-2pm)

Afternoon Session (2pm-5pm)

2:00-2:30 **Allan MacDonald** (University of Texas at Austin)
Quantum Hall Effect Again: This time without a magnetic field

2:30-3:00 **Andrey Chubukov** (University of Minnesota)
Unconventional discontinuous transitions in a 2D system with spin and valley degrees of freedom

3:00-3:30 **Joseph Betouras** (Loughborough University)
High-order van Hove singularities, their properties and their connection to flat bands

3:30-4:00 **Coffee Break**

4:00-4:30 **Natalia Perkins** (University of Minnesota)
Kitaev Quantum Spin Liquid: from Theory to Experiment

4:30-5:00 **Nic Shannon** (Okinawa Institute of Science and Technology)
From pseudo gaps to quantum computers