

Topic 2: Constructing Functional Quantum Computers

Speakers and Discussion Leaders: Steve Reinhardt (D-Wave) and John Kelly (QxBranh)

The discussion will focus on three questions:

1. What are the key technological hurdles to be overcome?
2. What are the most important hardware or algorithmic problems to tackle first?
3. (What basic scientific or technological aspects of a quantum computer are still uncertain or debated, and will likely determine the future of this field?)

Additional discussion topics could include (but not limited to): system design and operating system development, collaboration between system integrators and key component vendors, and roles of national labs and government agencies.