Week 1, July 2 – 6, 2018

Sunday, July 1st

6:30pm – 8:30	**Registration mixer with refreshments** WeatherTech Café in the C4C *Beer and Wine Will Be Served*

Monday, July 2nd

8:30 – 9:00	**Organizers** *Welcome and School Introduction*
9:00 – 10:30	**E. Knill** *States in Context*
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Bollinger** *Trapped-ion Quantum Simulation, Computing and Sensing*
12:30 – 13:45	Lunch
14:00 – 15:30	**F. Brandao** *Quantum Entanglement*
15:30 – 16:30	**Participant Introductions**

Tuesday, July 3rd

9:00 – 10:30	**E. Knill** *States in Context*
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Bollinger** *Trapped-ion Quantum Simulation, Computing and Sensing*
12:30 – 13:45	Lunch
14:00 – 15:30	**F. Brandao** *Quantum Entanglement*

Wednesday, July 4th

9:00 – 10:30	**M. Christandl**
	Many-particle entanglement
10:30 – 11:00	Coffee Break
11:00 – 12:30	**F. Brandao**
	Quantum Entanglement
12:30 – 13:45	Lunch
14:00 – 15:30	Holiday Break

Thursday, July 5th

9:00 – 10:30	**J. Bollinger**
	Trapped-ion Quantum Simulation, Computing and Sensing
10:30 – 11:00	Coffee Break
11:00 – 12:30	**M. Christandl**
	Many-particle entanglement
12:30 – 13:45	Lunch
14:00 – 15:30	**M. Troyer**
	Quantum Annealing & Quantum Chemistry
18:30 – 18:55	**Poster Talks I**
	Duane G130
19:00 – 22:00	**Poster Session I**
	11th Floor Commons Room

Friday, July 6th

9:00 – 10:30	**M. Troyer**
	Quantum Annealing & Quantum Chemistry
10:30 – 11:00	Coffee Break
11:00 – 12:30	**M. Christandl**
	Many-particle entanglement
12:30 – 13:45	Lunch
14:00 – 15:30	**M. Troyer**
	Quantum Annealing & Quantum Chemistry
19:00 – 21:30	**Catered dinner**
	11th Floor Commons Room

Week 2, July 9 – 13, 2018

Monday, July 9th

9:00 – 10:30	**D. DiVincenzo**
	Superconducting Quantum computing
10:30 – 11:00	Coffee Break
11:00 – 12:30	**B. Terhal**
	Quantum Error Correction & Quantum Memory
12:30 – 13:45	Lunch
14:00 – 15:30	**R. Renner**
	Quantum Foundations
19:00 – 20:00	**Public Lecture: David DiVincenzo**
	TBD, Duane Physics G1B30

Tuesday, July 10th

9:00 – 10:30	**R. Renner**
	Quantum Foundations
10:30 – 11:00	Coffee Break
11:00 – 12:30	**B. Terhal**
	Quantum Error Correction & Quantum Memory
12:30 – 13:45	Lunch
14:00 – 15:30	**D. DiVincenzo**
	Superconducting Quantum computing
18:00 – 20:00	**Dessert on Flagstaff Mountain**
	Busses leave south of C4C at 6pm

Wednesday, July 11th

9:00 – 10:30	**R. Renner**
	Quantum Foundations
10:30 – 11:00	Coffee Break
11:00 – 12:30	**B. Terhal**
	Quantum Error Correction & Quantum Memory
12:30 – 13:45	Lunch
14:00 – 15:30	**C. Regal**
	Ultracold Atoms & Quantum Transducers

Thursday, July 12th

9:00 – 10:30	**C. Regal**
	Ultracold Atoms & Quantum Transducers
10:30 – 11:00	Coffee Break
11:00 – 12:30	**S. Aaronson**
	Quantum Algorithms
12:30 – 13:45	Lunch
14:00 – 15:30	**D. DiVincenzo**
	Superconducting Quantum computing
18:30 – 18:55	**Poster Talks II**
	Duane G130
19:00 – 22:00	**Poster Session II**
	11th Floor Commons Room

Friday, July 13th

9:00 – 10:30	**S. Aaronson**
	Quantum Algorithms
10:30 – 11:00	Coffee Break
11:00 – 12:30	**C. Regal**
	Ultracold Atoms & Quantum Transducers
12:30 – 13:45	Lunch
14:00 – 15:30	**S. Aaronson**
	Quantum Algorithms

Week 3, July 16 – 20, 2018

Monday, July 16th

9:00 – 10:30	**J. Alicea**
	Majorana Quantum Computing
10:30 – 11:00	Coffee Break
11:00 – 12:30	**E. Knill**
	Statistics in Context
12:30 – 13:45	Lunch
14:00 – 15:30	**T. Cubitt**
	Quantum Complexity Theory

Tuesday, July 17th

9:00 – 10:30	**J. Alicea**
	Majorana Quantum Computing
10:30 – 11:00	Coffee Break
11:00 – 12:30	**T. Cubitt**
	Quantum Complexity Theory
12:30 – 13:45	Lunch
14:00 – 15:30	**D. Gottesman**
	Quantum Error Correction & Fault Tolerance

Wednesday, July 18th

9:00 – 10:30	**J. Alicea**
	Majorana Quantum Computing
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Martinis**
	Experimental Superconducting Quantum Computing
12:30 – 13:45	Lunch
14:00 – 15:30	**D. Gottesman**
	Quantum Error Correction & Fault Tolerance

Thursday, July 19th

9:00 – 10:30	**D. Gottesman**
	Quantum Error Correction & Fault Tolerance
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Martinis**
	Experimental Superconducting Quantum Computing
12:30 – 13:45	Lunch
14:00 – 15:30	**J. Martinis**
	Experimental Superconducting Quantum Computing
18:30 – 18:55	**Poster Talks III**
	Duane G130
19:00 – 22:00	**Poster Session III**
	11th Floor Commons Room

Friday, July 20th

9:00 – 10:30	**D. Gottesman**
	Quantum Error Correction & Fault Tolerance
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Martinis**
	Experimental Superconducting Quantum Computing
12:30 – 13:45	Lunch
14:00 – 15:30	**T. Cubitt**
	Quantum Complexity Theory
19:00 – 21:30	**Catered dinner**
	11th Floor Commons Room

Week 4, July 23 - July 27, 2018

Monday, July 23rd

9:00 – 10:30	**F. Verstraete**
	Tensor Networks
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Haah**
	Topological Phases for Robust Quantum Memory
12:30 – 13:45	Lunch
14:00 – 15:30	**J. Ye**
	Quantum Metrology with Ultracold Atoms

Tuesday, July 24th

9:00 – 10:30	**F. Verstraete**
	Tensor Networks
10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Haah**
	Topological Phases for Robust Quantum Memory
12:30 – 13:45	Lunch
14:00 – 15:30	**J. Ye**
	Quantum Metrology with Ultracold Atoms

Wednesday, July 25th

9:00 – 10:30	**F. Verstraete**
	Tensor Networks
10:30 – 11:00	Coffee Break
11:00 – 12:30	**B. Swingle**
	Quantum Many-body Systems & Quantum Gravity
12:30 – 13:45	Lunch
14:00 – 15:30	**J. Ye**
	Quantum Metrology with Ultracold Atoms

Thursday, July 26th

9:00 – 10:30	**F. Verstraete**
	Tensor Networks

10:30 – 11:00	Coffee Break
11:00 – 12:30	**J. Haah**
	Topological Phases for Robust Quantum Memory
12:30 – 13:45	Lunch
14:00 – 15:30	**B. Swingle**
	Quantum Many-body Systems & Quantum Gravity

Friday, July 27th

9:00 – 10:30	**B. Swingle**
	Quantum Many-body Systems & Quantum Gravity
10:30 – 11:00	Coffee Break
11:00 – 12:30	**Summary of the School**
12:30 – 13:45	Lunch