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	**J. Martinis** *Experimental Superconducting Quantum Computing*
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	**T. Cubitt** *Quantum Complexity Theory*
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