	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
8:50	**Organizers**: (*Opening Remarks,* 10 min)				
9:00	**Benoît Valiron** *Representing quantum control* (40 min)	**Chris Granade** *Quantum linguistic relativity* (40 min)	**Austin Fowler** *Low overhead quantum computation using lattice surgery* (40 min)	**Earl Campbell** *Phase polynomials, T-count optimisation and Lempel's algorithm* (40 min)	**Julien Ross** *Toward the first quantum simulation with quantum speedup* (40 min))
9:40	BREAK	BREAK	BREAK	BREAK	BREAK
10:10	**Mathias Soeken** *Automatic synthesis in quantum programming languages* (25 min)	**Robert Wille** *Data-structures & methods for design of quantum computations* (25 min)	**Margherita Zorzi** *Quantum calculi: from theory to language design* (25 min)	**Matt Amy** *Functional verification of quantum circuits* (25 min)	**Group discussion:** Bird's eye view on quantum languages (moderator Robert Rand; 30min)
10:35	BREAK	BREAK	BREAK	BREAK	BREAK
11:00	**Bert Lindenhovius** *Operator algebras and their role in quantum programming languages.* (25 min)	**Shigeru Yamashita** *How to represent and optimize topological quantum circuits* (25 min)	**Rod van Meter** *Error-aware compilation for the IBM 20-qubit machine* (25 min)	**Vadym Kliuchnikov** *Cheaper alternative to Euler decomposition for SU(2) gates and fall-back circuits* (25 min)	**Group discussion:** Tools for quantum optimizations – state of the art (moderator Matt Amy; 30min)
11:25	**Mingsheng Ying** *Reasoning about parallel quantum programs* (25 min)	**Robert Glück** Reversible programming languages (25min)	**Nader Khammassi** *OpenQL: Programming framework* (25 min)	**Frank Fu** *Demo on dependent types in Proto-Quipper* (25 min)	**Group discussion:** Impacts on education (moderator Rod van Meter; 30min)
11:50	DISCUSSION TIME	DISCUSSION TIME	DISCUSSION TIME	DISCUSSION TIME	DISCUSSION TIME
12:15	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
2:00	**Vladimir Zamdzhiev** *Recursive types for linear/non-linear quantum programming* (40 min)	DISCUSSION TIME	FREE AFTERNOON / HIKE / EXCURSIONS	**Alwin Zulehner** *Compiling quantum circuits to the IBM QX architectures* (40 min)	
2:40	BREAK			BREAK	
3:10	**Sabine Glesner** *Reflections on programming languages: traditional and quantum* (25 min)			**Francisco Rios** *Proto-Quipper-M: categorically sound quantum circuit description Language.* (25 min)	
3:35	COFFEE/TEA	COFFEE/TEA		COFFEE/TEA	
4:15	**Robert Rand** *Verified optimization and error correction of quantum programs* (25 min)	DISCUSSION TIME		**Beatrice Nash** *Circuit optimizations for NISQ processors* (25 min)	