Arithmetic Geometry, Number Theory, and Computation
Schedule of Short Talks on Tuesday August 21, 2018

4:45–4:50 Hanson Smith (University of Colorado Boulder)
Ramification in the division fields of elliptic curves and an application to sporadic points on modular curves

4:51–4:56 Kenneth Ward (American University)
The q-unit circle

4:57–5:02 Francesc Fité (Universitat Politcnica de Catalunya, BGSmath)
Endomorphism algebras of geometrically split abelian surfaces over $\mathbf{Q}$

5:03–5:08 Nathan Kaplan (University of California, Irvine)
Counting problems for elliptic curves over a fixed finite field

5:09–5:15 Manh Hung Tran (Chalmers University of Technology)
Uniform bounds for rational points on complete intersections of two quadric surfaces

5:16–5:21 Isabel Vogt (Massachusetts Institute of Technology)
A local-global principle for isogenies of composite degree

5:22–5:27 Nicolas Mascot (American University of Beirut)
Hensel lifting of torsion points on Jacobians and Galois representations

5:28–5:38 **Intermission**

5:39–5:44 Huy Dang (University of Virginia)
Connectedness of the moduli space of Artin–Schreier curves

5:45–5:50 Michael Musty (Dartmouth College)
A database of Belyi maps

5:51–5:56 Benjamin Smith (INRIA, École Polytechnique)
Constructive problems from (and for) isogeny-based crypto

5:57–6:02 Lian Duan (University of Massachusetts)
Galois representation of Dwork surfaces

6:03–6:08 Gabriel Dorfsman-Hopkins (University of Washington)
Projective geometry for perfectoid spaces

6:09–6:14 Travis Morrison (University of Waterloo)
Cycles in supersingular isogeny graphs

6:15–6:20 Joseph Gunther (Université Paris-Sud, Orsay)
Irrational points on hyperelliptic curves