

PART 1
SQIsign

Question

given supersingular E , can we find
weird, funky endomorphisms $\omega \in \text{End}(E)$?

hard

actually giving an
endom. $\omega \in \text{End}(E)$
or some way to
compute this

equivalent!!!

Question

given E and E' , can we find
an isogeny $\varphi : E \rightarrow E'$?

hard

actually giving an
isogeny $\varphi : E \rightarrow E'$
or some way to
compute this

Best Paper ASIACRYPT 2020

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Chair: Shiho Moriai & Huaxiong Wang

Finding Collisions in a Quantum World: Quantum Black-Box Separation of Collision-Resistance and One-Wayness

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PART 1: SQIsign

New results on Gimli: full-permutation distinguishers and improved collisions

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SQISign: Compact Post-Quantum signatures from Quaternions and Isogenies

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Luca De Feo, David Kohel, Antonin Leroux, Christophe Petit, Benjamin Wesolowski

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