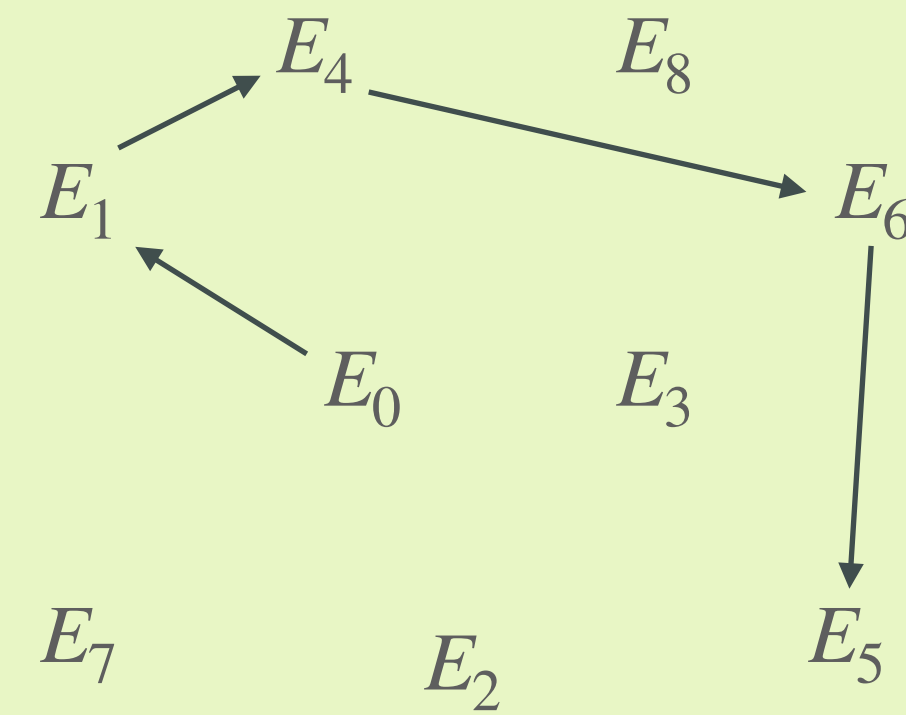


PART 1

SQLsign

Deuring correspondence

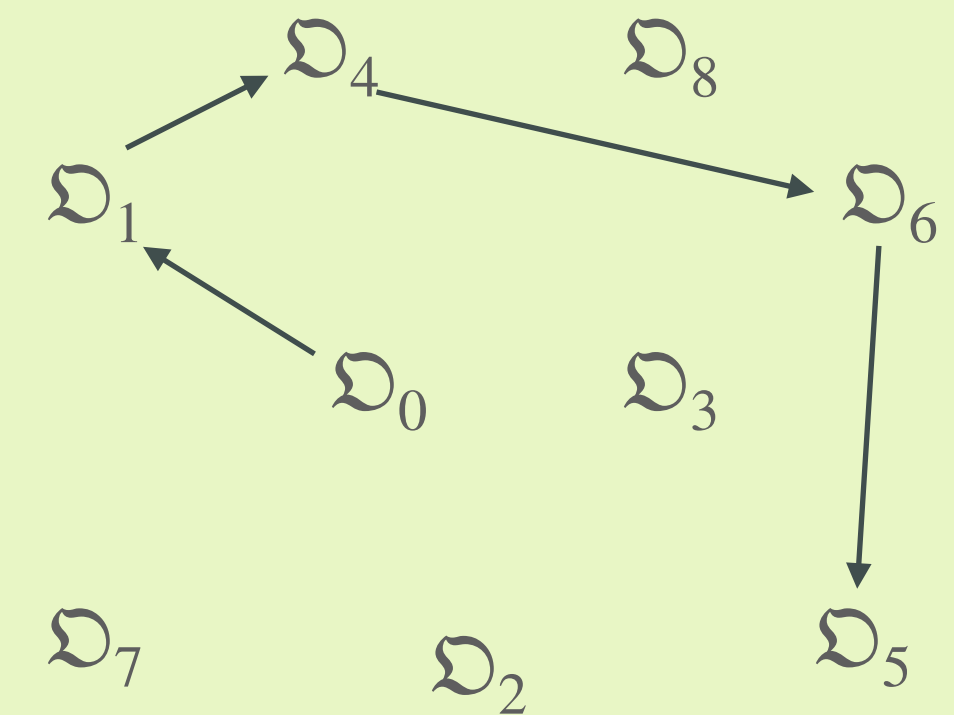
world of supersingular curves



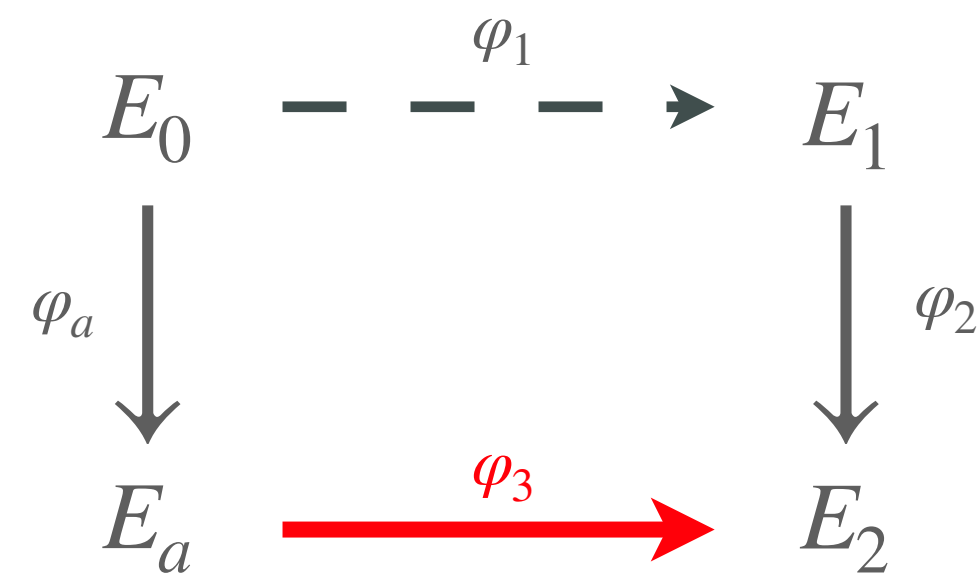
Equivalence
of categories

$$E \mapsto \text{End}(E) \cong \mathfrak{D}$$

world of maximal orders



computing the signature



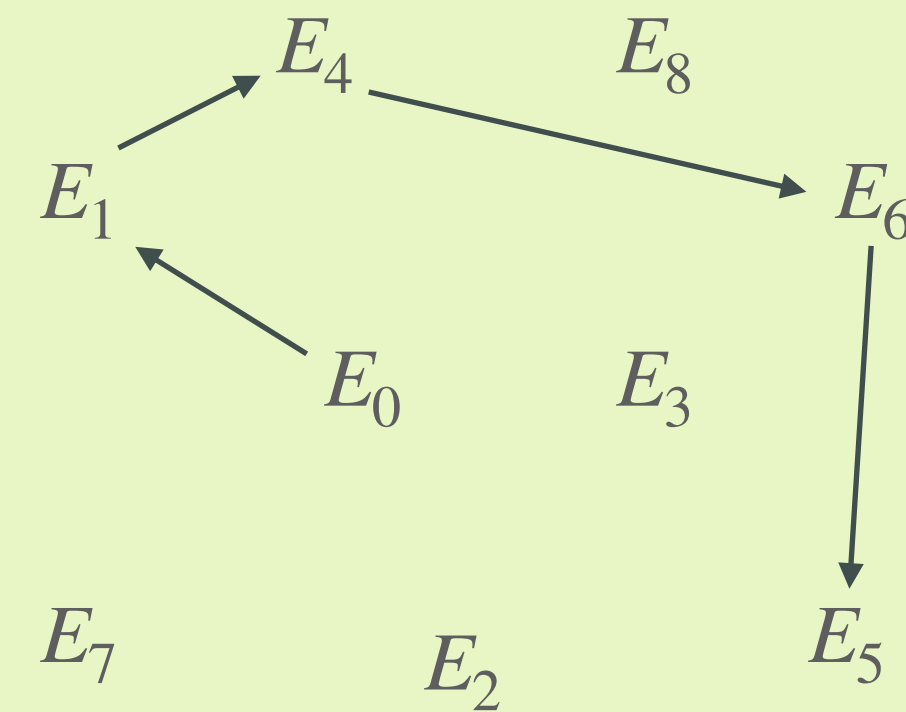
Fact: Given $\text{End}(E_a)$ and $\text{End}(E_2)$
you can compute $\varphi_3 : E_a \rightarrow E_2$

PART 1

SQLsign

Deuring correspondence

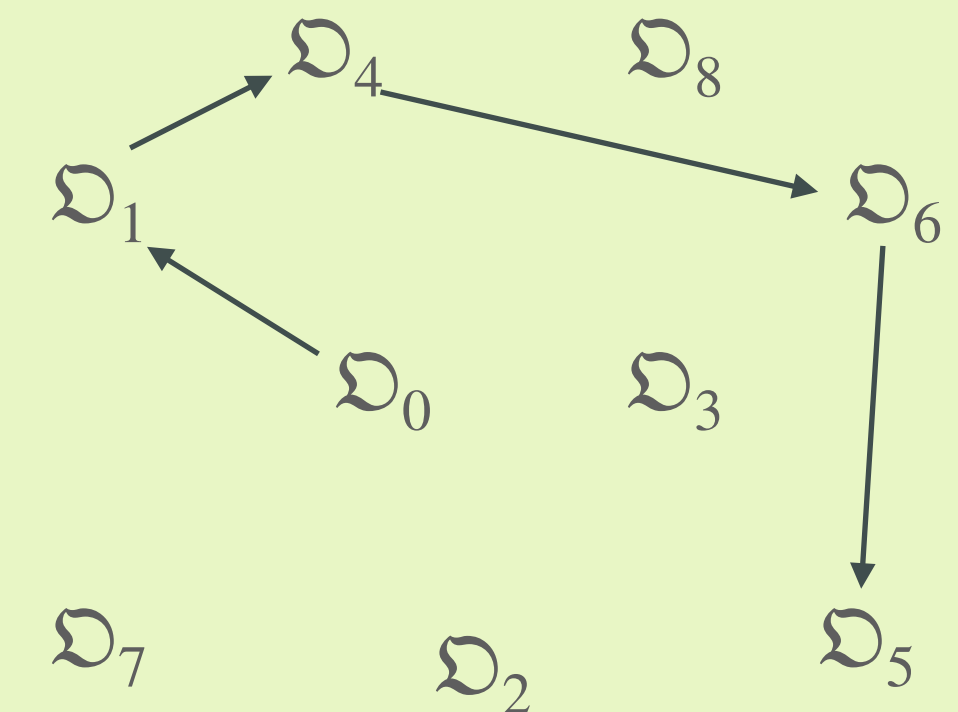
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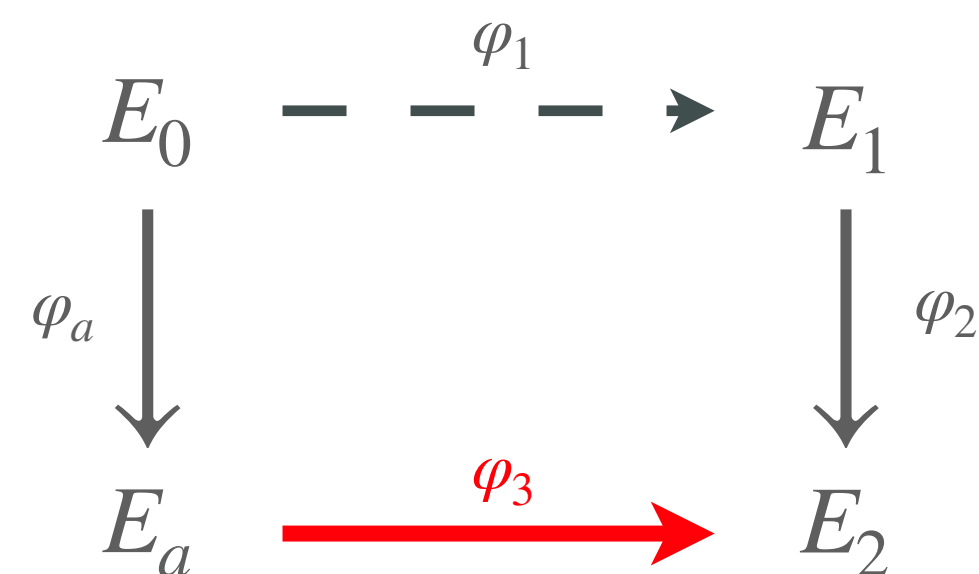
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curve-order dictionary

supersingular curves

curve E (up to Galois conjugacy)

quaternion orders

maximal order \mathfrak{D} (up to isomorphism)