

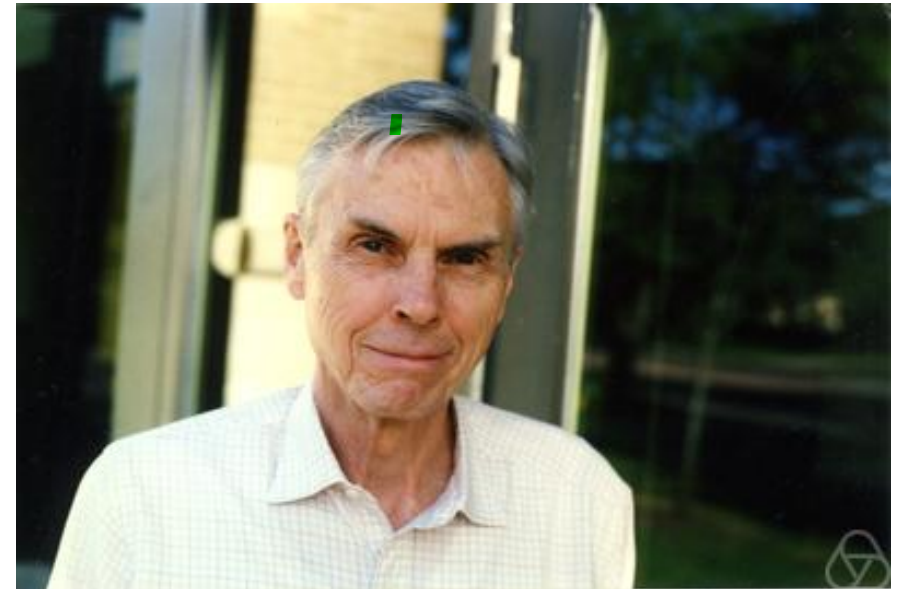
PREVIOUSLY...

- Intro to Algebraic Geometry up to Riemann-Roch
 - ↳ • Definition of elliptic curves and Weierstrass models
- The group law on an elliptic curve
- Isogenies between elliptic curves, and the dual isogeny.

TODAY:

The Tate Module

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1925 - 2019



LAST TIME:

Isogenies + dual isogenies \implies

E/k w/ $\text{char } k = 0$ then

$$E[m] \cong \mathbb{Z}/m\mathbb{Z} \oplus \mathbb{Z}/m\mathbb{Z}$$

for each $m \geq 2$,

where

