

# Computing these:

①  $c_g, \Delta_{E,d}^{(t)}, E/\mathbb{Q}$

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- W. Stein

- Karl

- Drew Sutherland

- Nicholas T.

- C. Popescu

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2. Computing the  $c_g$   
for at least one  $E/K$ ,  $K \neq \mathbb{Q}$ .  
and  $\chi$  abelian  
 $\chi$  not a Dirichlet character.

- M. Derickx

- Jan

- Jen B.

- Alex B.

- Mike R.

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3. Geometric constructions of cyclic points.

- B. Mazur
- Alex S.
- Noam E.
- Isabel V.
- Bjorn P.

<https://k8s.sagemath.org>  
omnibase

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$E/\mathbb{Q}$  fixed elliptic curve, non CM?  
(or not)

4.  $X \leftrightarrow c \in H^1(\mathbb{Q}, E) [n]$ .

$S = \{ K/\mathbb{Q} : X(K) \neq \emptyset \}$ .

number field

$= \{ K/\mathbb{Q} : \text{res}_K(c) = 0 \}$ .

Q: Is knowing  $\mathbb{Z}c$  same as knowing

