

# 2015-11-19-cuspidal-subgroup-modular-jacobian

William A. Stein

11/19/2015

## Contents

`J = J0(45)`

`J`

Abelian variety `J0(45)` of dimension 3

`C = J.cuspidal_subgroup()`

`C`

Finite subgroup with invariants `[2, 4, 8, 8]` over `QQ` of Abelian variety `J0(45)` of dimension 3

`J.rational_cuspidal_subgroup()`

Finite subgroup with invariants `[2, 4, 8]` over `QQ` of Abelian variety `J0(45)` of dimension 3