
Surface and Symmetry Search

Gord, nG, rk = 60 5 0

The group G is:

Permutation group G acting on a set of cardinality 5

Order = 60 = 2² * 3 * 5

(1, 2, 3, 4, 5)

(1, 2, 3)

#Aut(G) = 120

#involution reps = 2

involution centralizer sizes = [12, 8]

***** Type I Symmetries

Type I, Case 1

#TypeItriples 0

#Zth 12

num algebraically inequivalent actions: 0

SigGenusData = []

#SymmInvClasses = 1

SymmInvClassReps = [

Id(G)

]

0 sizes = [10]

Type I ConjData = []

Type I, Case 2

#TypeItriples 152

#Zth 8

num algebraically inequivalent actions: 19

SigGenusData = [

<[2, 3, 5], 0>,

<[5, 2, 3], 0>,

<[3, 5, 5], 9>,

<[5, 5, 5], 13>,

<[5, 2, 5], 4>,

<[5, 5, 3], 9>,

<[5, 5, 2], 4>,

<[2, 5, 5], 4>,

<[3, 5, 3], 5>,

<[3, 5, 5], 9>,

<[5, 3, 3], 5>,

<[2, 5, 3], 0>,

<[3, 5, 2], 0>,

<[3, 2, 5], 0>,

<[5, 5, 3], 9>,

<[5, 3, 5], 9>,

<[3, 3, 5], 5>,


```
Type II, Case 2
#TypeIItriples 24
#Zth 8
num algebraically inequivalent actions: 3
SigGenusData = [
  <[ 5, 5, 3 ], 9>,
  <[ 5, 5, 5 ], 13>,
  <[ 3, 3, 5 ], 5>
]
#SymmInvClasses = 2
SymmInvClassReps = [
  Id(G),
  (2, 5)(3, 4)
]
0 sizes = [ 15, 1 ]
Type II ConjData = [
  <[ 1 ], [ 2 ]>,
  <[ 1 ], [ 2 ]>,
  <[ 1 ], [ 2 ]>
]
```