

# SymmetricComparisonMagma

September 14, 2018

## Group : Sym(6)

Searching up to index : 1000

How many normal groups are found : 3

Total Time (in s) in GAP: 0.9

Total Time (in s) in MAGMA0.3

| Function                    | Count_GAP | Count_MAGMA | Time_GAP | Time_MAGMA |
|-----------------------------|-----------|-------------|----------|------------|
| LowIndexNormal              | 1         | 1           | 0.9      | 0.3        |
| FindPQuotients              | 2         | 2           | 0.8      | 0.1        |
| FindTQuotients              | 1         | 1           | 0.0      | 0.2        |
| FindIntersections           | 1         | 1           | 0.0      | 0.0        |
| AddGroup                    | 4         | 2           | 0.0      | 0.0        |
| MustCheckP                  | 263       | 5           | 0.0      | 0.0        |
| FindPModules                | 263       | 6           | 0.8      | 0.1        |
| SMTX_BasesMaximalSubmodules | 1         | 1           | 0.0      | 0.0        |
| PullBackH                   | 1         | -1          | 0.0      | -1.0       |

## Group : Sym(7)

Searching up to index : 1000

How many normal groups are found : 2

Total Time (in s) in GAP: 0.8

Total Time (in s) in MAGMA0.3

| Function       | Count_GAP | Count_MAGMA | Time_GAP | Time_MAGMA |
|----------------|-----------|-------------|----------|------------|
| LowIndexNormal | 1         | 1           | 0.8      | 0.3        |
| FindPQuotients | 2         | 2           | 0.8      | 0.1        |
| FindTQuotients | 1         | 1           | 0.0      | 0.2        |

|                             |     |    |     |      |
|-----------------------------|-----|----|-----|------|
| FindIntersections           | 1   | 1  | 0.0 | 0.0  |
| AddGroup                    | 1   | 1  | 0.0 | 0.0  |
| MustCheckP                  | 263 | 6  | 0.0 | 0.0  |
| FindPModules                | 263 | 6  | 0.8 | 0.1  |
| SMTX_BasesMaximalSubmodules | 1   | 1  | 0.0 | 0.0  |
| PullBackH                   | 1   | -1 | 0.0 | -1.0 |

**Group : Sym(8)**

Searching up to index : 1000

How many normal groups are found : 2

Total Time (in s) in GAP: 0.8

Total Time (in s) in MAGMA0.7

| Function                    | Count_GAP | Count_MAGMA | Time_GAP | Time_MAGMA |
|-----------------------------|-----------|-------------|----------|------------|
| LowIndexNormal              | 1         | 1           | 0.8      | 0.7        |
| FindPQuotients              | 2         | 2           | 0.7      | 0.1        |
| FindTQuotients              | 1         | 1           | 0.1      | 0.6        |
| FindIntersections           | 1         | 1           | 0.0      | 0.0        |
| AddGroup                    | 1         | 1           | 0.0      | 0.0        |
| MustCheckP                  | 263       | 4           | 0.0      | 0.0        |
| FindPModules                | 263       | 5           | 0.7      | 0.1        |
| SMTX_BasesMaximalSubmodules | 1         | 1           | 0.0      | 0.0        |
| PullBackH                   | 1         | -1          | 0.0      | -1.0       |

**Group : Sym(9)**

Searching up to index : 1000

How many normal groups are found : 2

Total Time (in s) in GAP: 1.2

Total Time (in s) in MAGMA0.7

| Function          | Count_GAP | Count_MAGMA | Time_GAP | Time_MAGMA |
|-------------------|-----------|-------------|----------|------------|
| LowIndexNormal    | 1         | 1           | 1.2      | 0.7        |
| FindPQuotients    | 2         | 2           | 0.7      | 0.1        |
| FindTQuotients    | 1         | 1           | 0.4      | 0.6        |
| FindIntersections | 1         | 1           | 0.0      | 0.0        |

|                             |     |    |     |      |
|-----------------------------|-----|----|-----|------|
| AddGroup                    | 1   | 1  | 0.0 | 0.0  |
| MustCheckP                  | 263 | 4  | 0.0 | 0.0  |
| FindPModules                | 263 | 4  | 0.7 | 0.1  |
| SMTX_BasesMaximalSubmodules | 1   | 1  | 0.0 | 0.0  |
| PullBackH                   | 1   | -1 | 0.0 | -1.0 |