

DihedralComparisonMagma

September 10, 2018

Group : Dih(10000)

Searching up to index : 125

How many normal groups are found : 14

Total Time in s : 182.9

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	182.9	1
FindPQuotients	12	12	159.8	0.7
FindTQuotients	1	1	0.0	0.3
FindIntersections	11	11	23.0	0
AddGroup	16	15	137.0	0.1
MustCheckP	118	41	0.0	0
FindPModules	99	22	159.8	0.7
SMTX_BasesMaximalSubmodules	11	11	0.0	0
PullBackH	13	5	0.0	0

Group : Dih(10000)

Searching up to index : 250

How many normal groups are found : 17

Total Time in s : 240.6

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	240.6	1.8
FindPQuotients	14	14	240.6	1.3
FindTQuotients	1	1	0.0	0.5

FindIntersections	13	13	0.0	0
AddGroup	21	20	194.4	0.3
MustCheckP	205	53	0.0	0
FindPModules	172	27	240.6	1.3
SMTX_BasesMaximalSubmodules	18	18	0.0	0
PullBackH	20	5	0.0	0

Group : Dih(10000)

Searching up to index : 500

How many normal groups are found : 19

Total Time in s : 309.0

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	309.0	2.9
FindPQuotients	17	17	274.7	1.8
FindTQuotients	1	1	34.2	1
FindIntersections	16	16	0.0	0
AddGroup	27	23	296.4	0.6
MustCheckP	362	71	0.0	0
FindPModules	299	32	274.7	1.8
SMTX_BasesMaximalSubmodules	21	21	0.0	0
PullBackH	23	5	0.0	0

Group : Dih(10000)

Searching up to index : 1000

How many normal groups are found : 21

Total Time in s : 377.5

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	377.5	5.3
FindPQuotients	19	19	297.9	2.8
FindTQuotients	1	1	79.6	2.4
FindIntersections	18	18	0.0	0

AddGroup	33	26	364.2	1.4
MustCheckP	641	77	0.0	0
FindPModules	522	32	297.8	2.8
SMTX_BasesMaximalSubmodules	24	24	0.0	0
PullBackH	26	5	0.0	0

Group : Dih(10000)

Searching up to index : 2000

How many normal groups are found : 23

Total Time in s : 409.6

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	409.6	8.199999999999999
FindPQuotients	21	21	327.8	4.7
FindTQuotients	1	1	81.7	3.5
FindIntersections	20	20	0.0	0
AddGroup	35	28	393.6	3
MustCheckP	1138	82	0.0	0
FindPModules	916	33	327.8	4.7
SMTX_BasesMaximalSubmodules	26	26	0.0	0
PullBackH	28	5	0.0	0

Group : Dih(10000)

Searching up to index : 4000

How many normal groups are found : 25

Total Time in s : 462.9

Function	Count_GAP	Count_MAGMA	Time_GAP	Time_MAGMA
LowIndexNormal	1	1	462.9	14.7
FindPQuotients	23	23	348.7	10
FindTQuotients	1	1	114.1	4.7
FindIntersections	22	22	0.0	0
AddGroup	40	30	445.4	7.9

MustCheckP	2042	88	0.0	0
FindPModules	1635	34	348.6	10
SMTX_BasesMaximalSubmodules	28	28	0.0	0
PullBackH	30	5	0.0	0