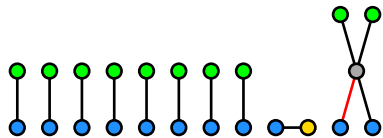


----- g,n: 3,10 graphs: 56 ----- Euler Characteristic (without resolving relations):
 ----- $-2V_1^{10}-1V_1^8\boxtimes V_1^2+3V_1^8\boxtimes V_1\boxtimes V_1+1V_1^7\boxtimes V_3-2V_1^7\boxtimes V_1\boxtimes V_2-1V_1^7\boxtimes V_1\boxtimes V_1\boxtimes V_1$ -----
 edges: 2 graphs: 9 -----
 A3 case graphs: 4 -----

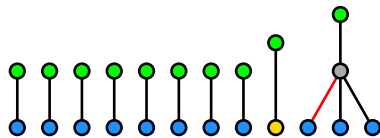
ID: 277

$V_1^8\boxtimes V_2$



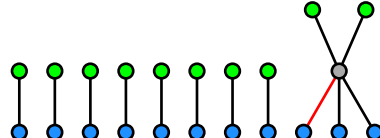
ID: 571

$V_1^8\boxtimes V_1\boxtimes V_1$



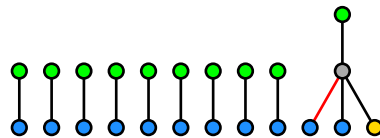
ID: 133

$V_1^8\boxtimes V_2$



ID: 132

$V_1^9\boxtimes V_1$

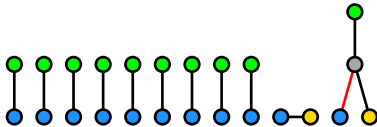


----- A2 case with weight 13 relations

relation groups: 1 -----

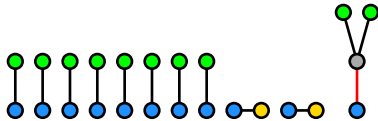
ID: 283

$V_1^9 \boxtimes V_1$



ID: 473

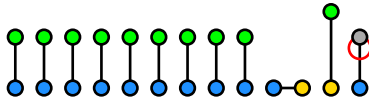
$V_1^8 \boxtimes V_2$



----- B,Birr cases with weight 11 relations relation groups: 1 -----

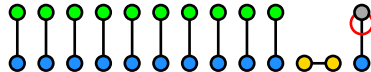
ID: 442

$V_1^9 \boxtimes V_1$



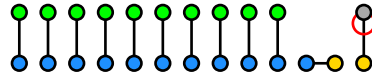
ID: 259

V_1^{10}



ID: 303

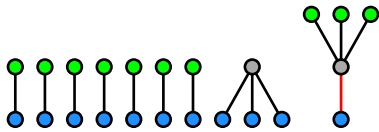
V_1^{10}



----- edges: 3 graphs: 26 -----
 ----- A3 case graphs: 6 -----

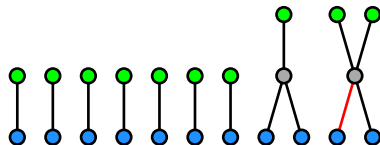
ID: 134

$V_{1^7} \boxtimes V_3$



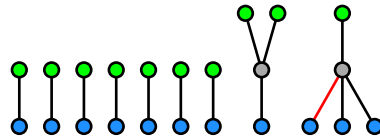
ID: 337

$V_{1^7} \boxtimes V_1 \boxtimes V_2$



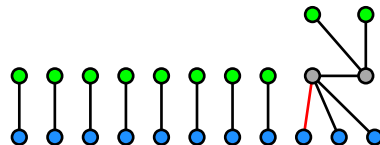
ID: 575

$V_{1^7} \boxtimes V_2 \boxtimes V_1$



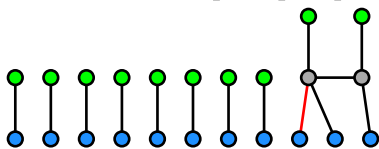
ID: 144

$V_{1^8} \boxtimes V_2$



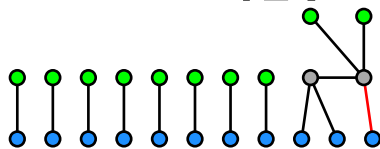
ID: 145

$V_{1^8} \boxtimes V_1 \boxtimes V_1$



ID: 146

$V_{1^8} \boxtimes V_2$

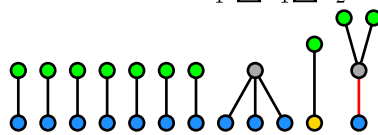
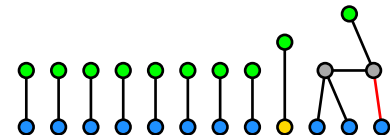


----- A2 case with weight 13 relations

relation groups: 4 -----

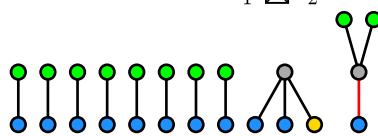
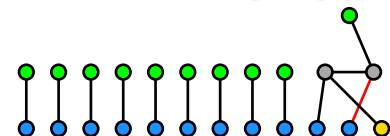
ID: 592 $V_1^8 \boxtimes V_1 \boxtimes V_1$

ID: 585 $V_1^7 \boxtimes V_1 \boxtimes V_2$



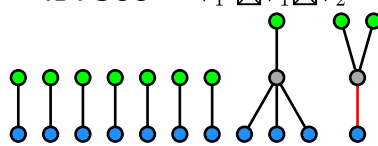
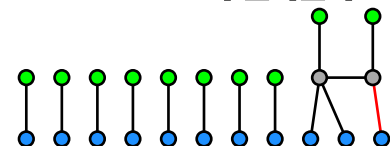
ID: 160 $V_1^9 \boxtimes V_1$

ID: 587 $V_1^8 \boxtimes V_2$



ID: 161 $V_1^8 \boxtimes V_1 \boxtimes V_1$

ID: 588 $V_1^7 \boxtimes V_1 \boxtimes V_2$

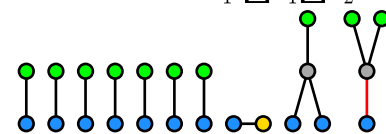
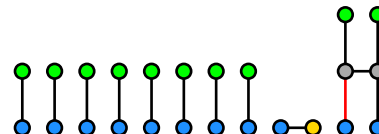
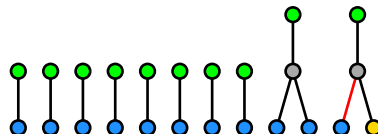
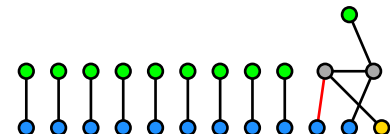


ID: 159 $V_1^9 \boxtimes V_1$

ID: 343 $V_1^8 \boxtimes V_1 \boxtimes V_1$

ID: 286 $V_1^8 \boxtimes V_1 \boxtimes V_1$

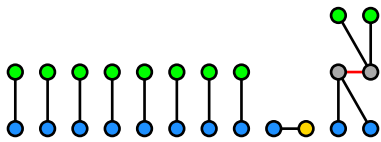
ID: 489 $V_1^7 \boxtimes V_1 \boxtimes V_2$



----- B,Birr cases without weight 11 relations graphs: 5 -----

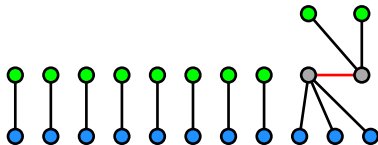
ID: 296

$V_1^8 \boxtimes V_2$



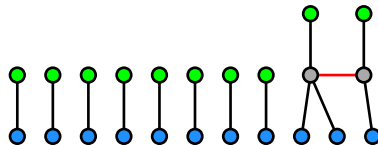
ID: 196

$V_1^8 \boxtimes V_2$



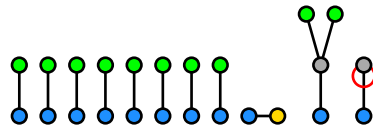
ID: 197

$V_1^8 \boxtimes V_1 \boxtimes V_1$



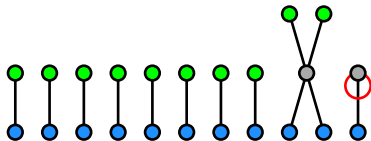
ID: 446

$V_1^8 \boxtimes V_2$



ID: 264

$V_1^8 \boxtimes V_2$



----- B,Birr cases with weight 11 relations

relation groups: 2 -----

ID: 606

$V_1^8 \boxtimes V_1 \boxtimes V_1$

ID: 195

$V_1^9 \boxtimes V_1$

ID: 456

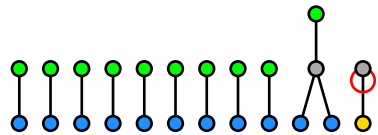
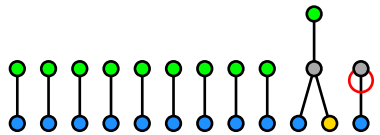
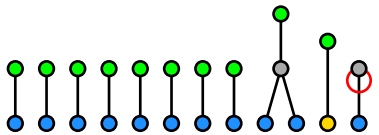
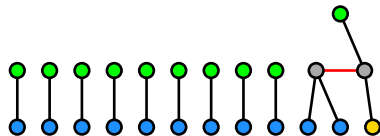
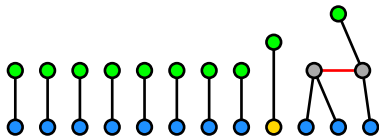
$V_1^8 \boxtimes V_1 \boxtimes V_1$

ID: 263

$V_1^9 \boxtimes V_1$

ID: 363

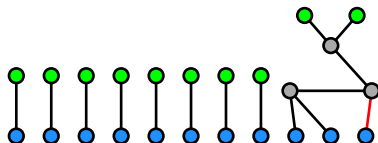
$V_1^9 \boxtimes V_1$



----- edges: 4 graphs: 21 -----
 ----- A2 case with weight 13 relations relation groups: 3 -----

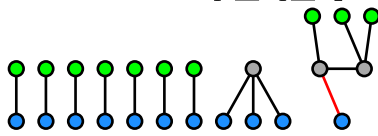
ID: 173

$V_1^8 \boxtimes V_2$



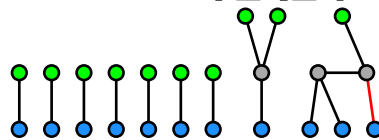
ID: 162

$V_1^7 \boxtimes V_1 \boxtimes V_2$



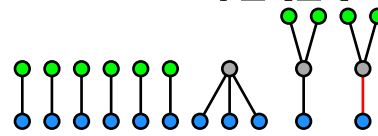
ID: 596

$V_1^7 \boxtimes V_2 \boxtimes V_1$



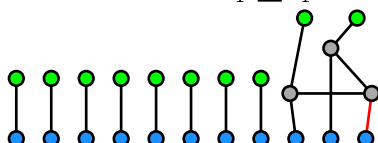
ID: 589

$V_1^6 \boxtimes V_2 \boxtimes V_2$



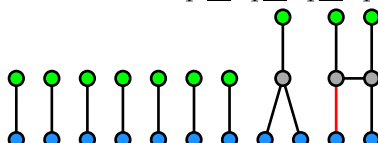
ID: 175

$V_1^8 \boxtimes V_1^2$



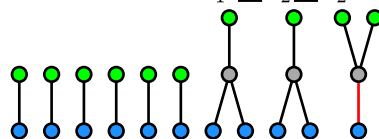
ID: 346

$V_1^7 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$



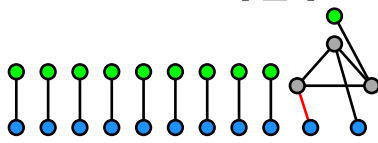
ID: 521

$V_1^6 \boxtimes V_2 \boxtimes V_2$



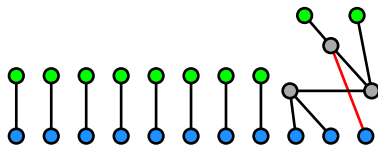
ID: 167

$V_1^9 \boxtimes V_1$



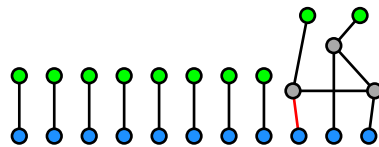
ID: 172

$V_1^8 \boxtimes V_1 \boxtimes V_1$



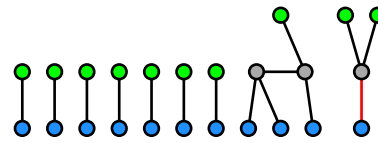
ID: 174

$V_1^8 \boxtimes V_1 \boxtimes V_1$



ID: 591

$V_1^7 \boxtimes V_1 \boxtimes V_2$

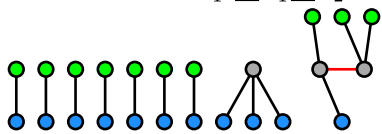


----- B,Birr cases without weight 11 relations

graphs: 10 -----

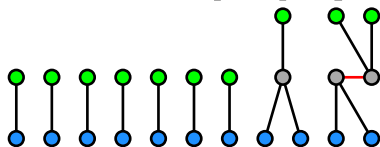
ID: 198

$V_{1^7} \boxtimes V_1 \boxtimes V_2$



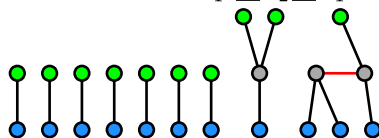
ID: 356

$V_{1^7} \boxtimes V_1 \boxtimes V_2$



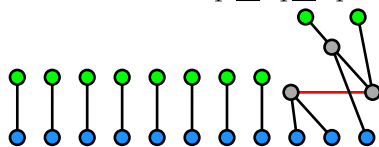
ID: 610

$V_{1^7} \boxtimes V_2 \boxtimes V_1$



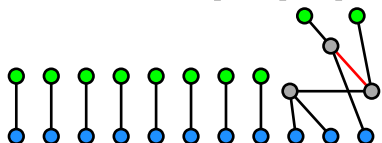
ID: 214

$V_{1^8} \boxtimes V_1 \boxtimes V_1$



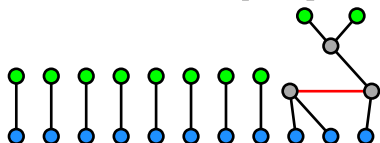
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$V_{1^8} \boxtimes V_1 \boxtimes V_1$



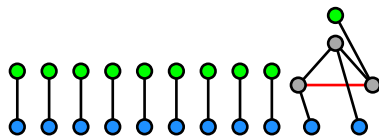
ID: 216

$V_{1^8} \boxtimes V_2$



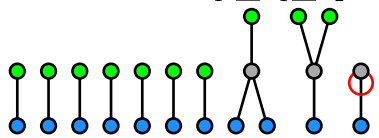
ID: 207

$V_{1^9} \boxtimes V_1$



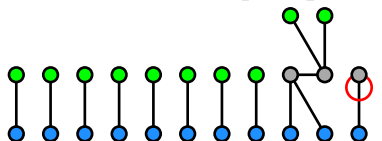
ID: 460

$V_{1^7} \boxtimes V_1 \boxtimes V_2$



ID: 270

$V_{1^8} \boxtimes V_2$



ID: 271

$V_{1^8} \boxtimes V_2$

