

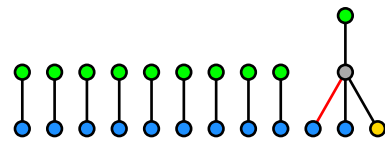
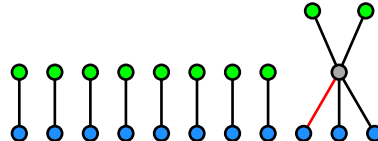
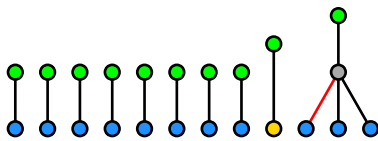
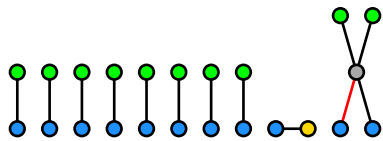
----- g,n: 3,10 graphs: 55 ----- Euler Characteristic (without resolving relations):
 ----- $-2V_1^{10}+1V_1^9 \boxtimes V_1 - 1V_1^8 \boxtimes V_1^2 + 3V_1^8 \boxtimes V_1 \boxtimes V_1 + 1V_1^7 \boxtimes V_3 - 2V_1^7 \boxtimes V_1 \boxtimes V_2 - 1V_1^7 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$ -----
 edges: 2 graphs: 9
 A3 case graphs: 4

ID: 203 $V_1^8 \boxtimes V_2$

ID: 204 $V_1^8 \boxtimes V_1 \boxtimes V_1$

ID: 205 $V_1^8 \boxtimes V_2$

ID: 206 $V_1^9 \boxtimes V_1$

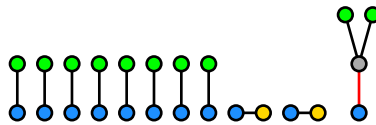
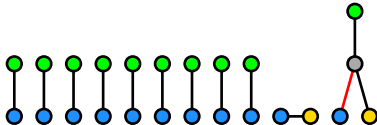


----- A2 case with weight 13 relations

relation groups: 1 -----

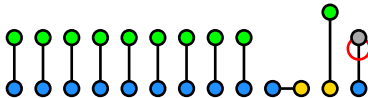
ID: 270 $V_1^9 \boxtimes V_1$

ID: 269 $V_1^8 \boxtimes V_2$

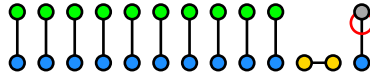


----- B,Birr cases with weight 11 relations relation groups: 1 -----

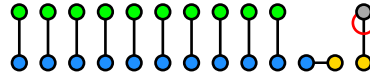
ID: 348 $V_1^9 \boxtimes V_1$



ID: 346 V_1^{10}

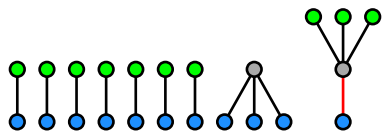


ID: 347 V_1^{10}

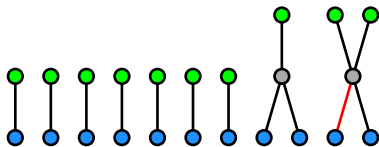


----- edges: 3
 ----- A3 case
 graphs: 26
 graphs: 6 -----

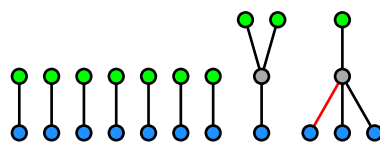
ID: 368 $V_1^7 \boxtimes V_3$



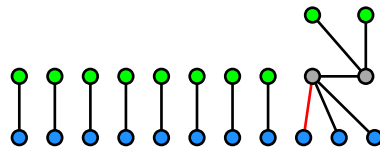
ID: 369 $V_1^7 \boxtimes V_1 \boxtimes V_2$



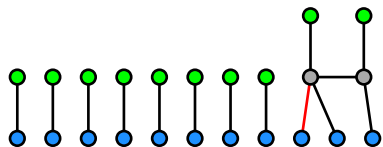
ID: 370 $V_1^7 \boxtimes V_2 \boxtimes V_1$



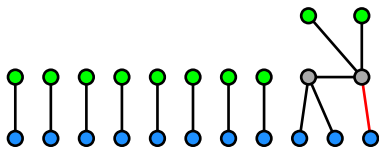
ID: 371 $V_1^8 \boxtimes V_2$



ID: 372 $V_1^8 \boxtimes V_1 \boxtimes V_1$



ID: 373 $V_1^8 \boxtimes V_2$

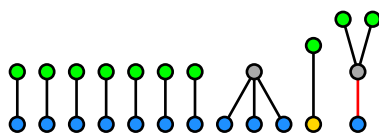
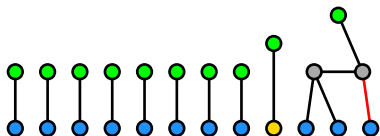


----- A2 case with weight 13 relations

relation groups: 4 -----

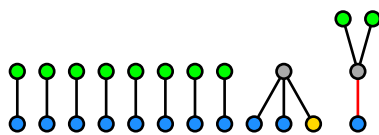
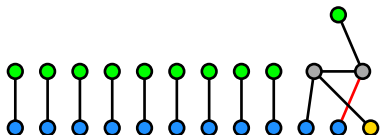
ID: 407 $V_{1^8} \boxtimes V_1 \boxtimes V_1$

ID: 402 $V_{1^7} \boxtimes V_1 \boxtimes V_2$



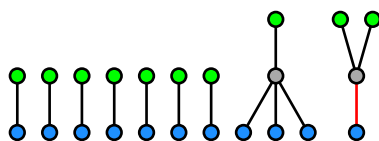
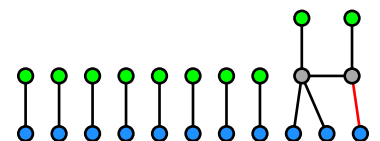
ID: 411 $V_{1^9} \boxtimes V_1$

ID: 408 $V_{1^8} \boxtimes V_2$



ID: 409 $V_{1^8} \boxtimes V_1 \boxtimes V_1$

ID: 406 $V_{1^7} \boxtimes V_1 \boxtimes V_2$

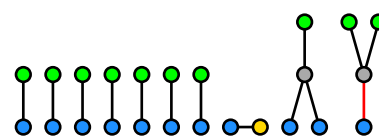
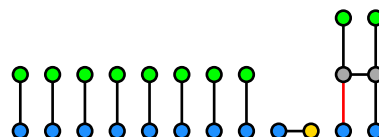
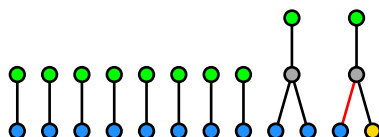
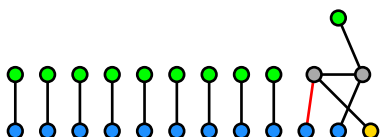


ID: 410 $V_{1^9} \boxtimes V_1$

ID: 405 $V_{1^8} \boxtimes V_1 \boxtimes V_1$

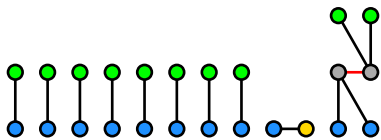
ID: 404 $V_{1^8} \boxtimes V_1 \boxtimes V_1$

ID: 403 $V_{1^7} \boxtimes V_1 \boxtimes V_2$

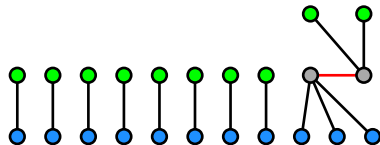


----- B,Birr cases without weight 11 relations graphs: 5 -----

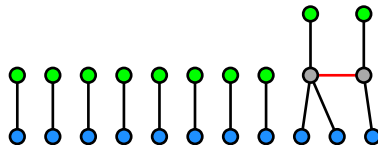
ID: 448 $V_1^8 \boxtimes V_2$



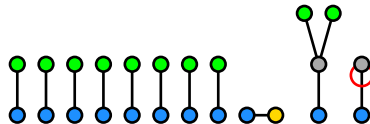
ID: 449 $V_1^8 \boxtimes V_2$



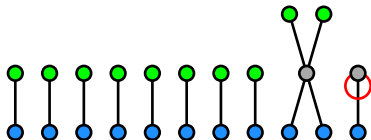
ID: 450 $V_1^8 \boxtimes V_1 \boxtimes V_1$



ID: 520 $V_1^8 \boxtimes V_2$



ID: 522 $V_1^8 \boxtimes V_2$

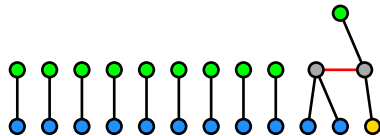
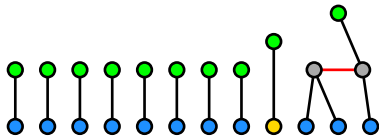


----- B,Birr cases with weight 11 relations

relation groups: 2 -----

ID: 447 $V_{1^8} \boxtimes V_1 \boxtimes V_1$

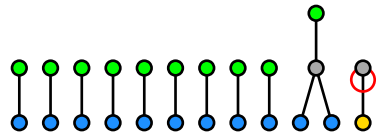
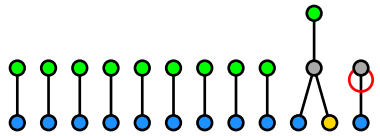
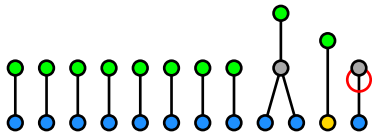
ID: 451 $V_{1^9} \boxtimes V_1$



ID: 521 $V_{1^8} \boxtimes V_1 \boxtimes V_1$

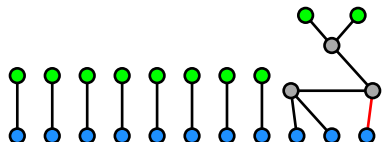
ID: 523 $V_{1^9} \boxtimes V_1$

ID: 524 $V_{1^9} \boxtimes V_1$

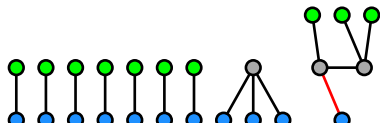


----- edges: 4 graphs: 20 -----
 ----- A2 case with weight 13 relations relation groups: 3 -----

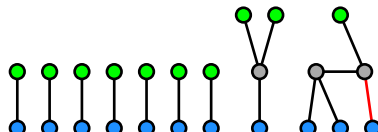
ID: 551 $V_1^8 \boxtimes V_2$



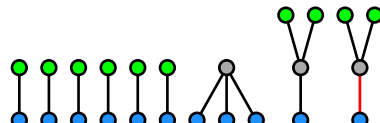
ID: 545 $V_1^7 \boxtimes V_1 \boxtimes V_2$



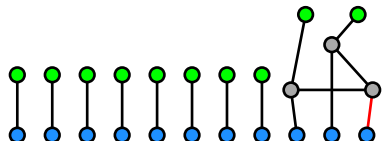
ID: 549 $V_1^7 \boxtimes V_2 \boxtimes V_1$



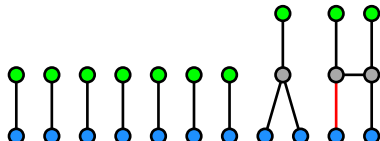
ID: 544 $V_1^6 \boxtimes V_2 \boxtimes V_2$



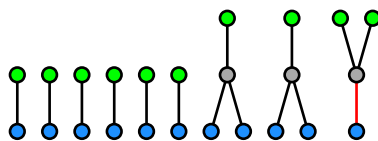
ID: 553 $V_1^8 \boxtimes V_1^2$



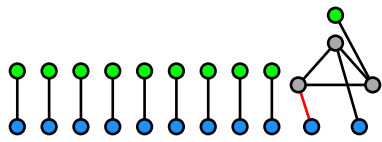
ID: 547 $V_1^7 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$



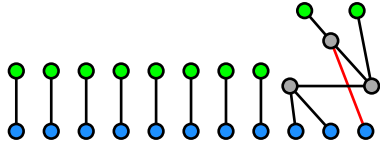
ID: 546 $V_1^6 \boxtimes V_2 \boxtimes V_2$



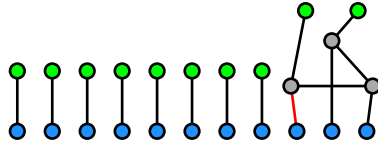
ID: 554 $V_1^9 \boxtimes V_1$



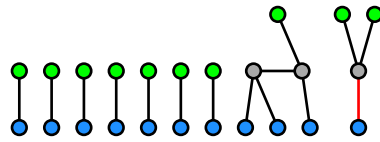
ID: 550 $V_1^8 \boxtimes V_1 \boxtimes V_1$



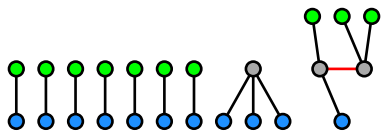
ID: 552 $V_1^8 \boxtimes V_1 \boxtimes V_1$



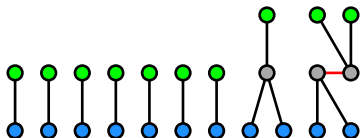
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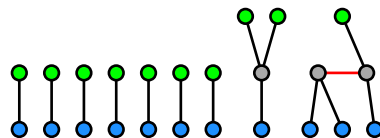
ID: 574 $V_{1^7} \boxtimes V_1 \boxtimes V_2$



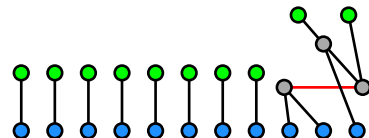
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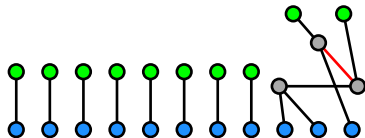
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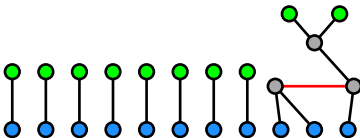
ID: 577 $V_{1^8} \boxtimes V_1 \boxtimes V_1$



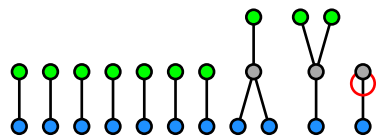
ID: 578 $V_{1^8} \boxtimes V_1 \boxtimes V_1$



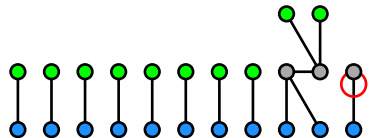
ID: 579 $V_{1^8} \boxtimes V_2$



ID: 608 $V_{1^7} \boxtimes V_1 \boxtimes V_2$



ID: 609 $V_{1^8} \boxtimes V_2$



ID: 610 $V_{1^8} \boxtimes V_2$

