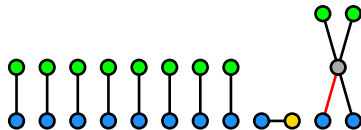
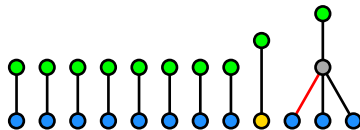


----- g,n: 3,10 graphs: 55 eliminated+redundant: 45 -----
 Euler Characteristic (without relations): $-2V_{1^{10}}+1V_{1^9}\boxtimes V_1-1V_{1^8}\boxtimes V_1^2+3V_{1^8}\boxtimes V_1\boxtimes V_1+1V_{1^7}\boxtimes V_3-2V_{1^7}\boxtimes V_1\boxtimes V_2-1V_{1^7}\boxtimes V_1\boxtimes V_1\boxtimes V_1$
 ----- edges: 2 graphs: 9 -----
 ----- A3 case graphs: 4 -----

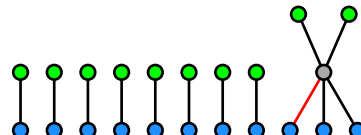
ID: 203 $V_{1^8}\boxtimes V_2$
 \mapsto ID 448



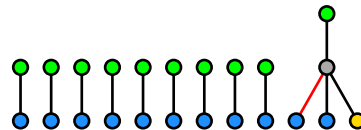
ID: 204 $V_{1^8}\boxtimes V_1\boxtimes V_1$
 \mapsto ID 372



ID: 205 $V_{1^8}\boxtimes V_2$
 \mapsto ID 373



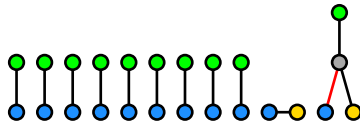
ID: 206 $V_{1^9}\boxtimes V_1$
 \mapsto ID 410



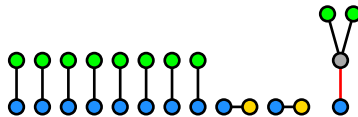
----- A2 case with weight 13 relations

relation groups: 1 -----

ID: 270 $V_1^9 \boxtimes V_1$
 \mapsto ID 525

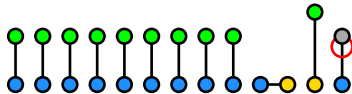


ID: 269 $V_1^8 \boxtimes V_2$
Redundant

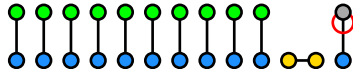


----- B,Birr cases with weight 11 relations relation groups: 1 -----

ID: 348 $V_1^9 \boxtimes V_1$

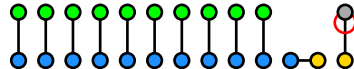


ID: 346 V_1^{10}



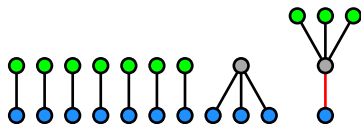
ID: 347 V_1^{10}

Redundant

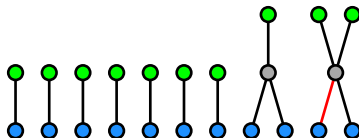


----- edges: 3 graphs: 26 -----
 ----- A3 case graphs: 6 -----

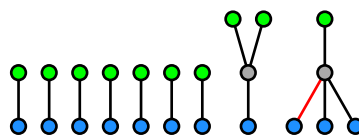
ID: 368 $V_{1^7} \boxtimes V_3$
 \mapsto ID 576



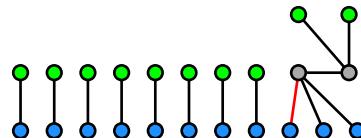
ID: 369 $V_{1^7} \boxtimes V_1 \boxtimes V_2$
 \mapsto ID 578



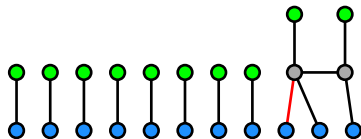
ID: 370 $V_{1^7} \boxtimes V_2 \boxtimes V_1$
 \mapsto ID 577



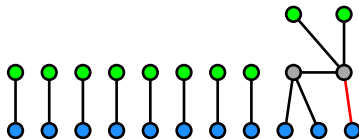
ID: 371 $V_{1^8} \boxtimes V_2$
 \mapsto ID 553



ID: 372 $V_{1^8} \boxtimes V_1 \boxtimes V_1$
 \leftarrow ID 204



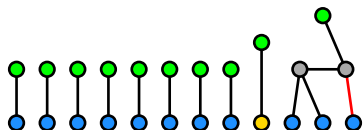
ID: 373 $V_{1^8} \boxtimes V_2$
 \leftarrow ID 205



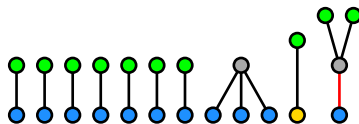
----- A2 case with weight 13 relations

relation groups: 4 -----

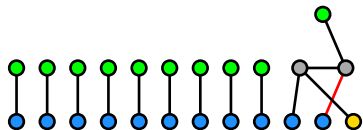
ID: 407 $V_1^8 \boxtimes V_1 \boxtimes V_1$



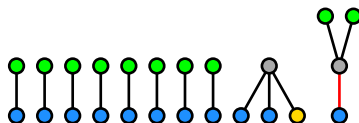
ID: 402 $V_1^7 \boxtimes V_1 \boxtimes V_2$



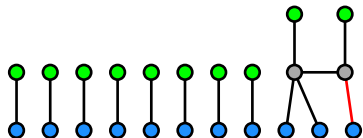
ID: 411 $V_1^9 \boxtimes V_1$
 \mapsto ID 556



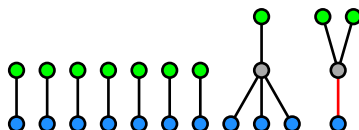
ID: 408 $V_1^8 \boxtimes V_2$
 Redundant



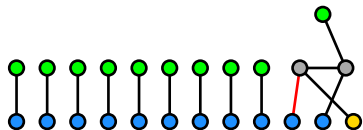
ID: 409 $V_1^8 \boxtimes V_1 \boxtimes V_1$
 \mapsto ID 552



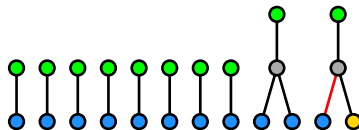
ID: 406 $V_1^7 \boxtimes V_1 \boxtimes V_2$
 Redundant



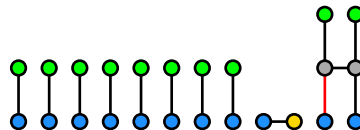
ID: 410 $V_1^9 \boxtimes V_1$
 \leftarrow ID 206



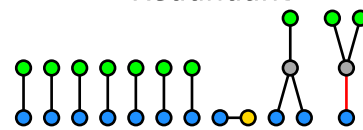
ID: 405 $V_1^8 \boxtimes V_1 \boxtimes V_1$



ID: 404 $V_1^8 \boxtimes V_1 \boxtimes V_1$
 Redundant



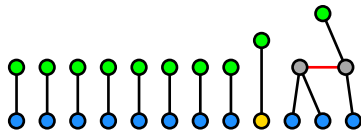
ID: 403 $V_1^7 \boxtimes V_1 \boxtimes V_2$
 Redundant



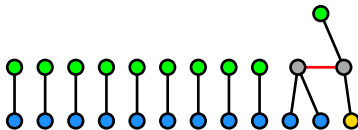
----- B,Birr cases with weight 11 relations

relation groups: 2 -----

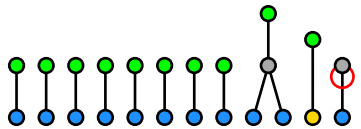
ID: 447 $V_{18} \boxtimes V_1 \boxtimes V_1$
 \mapsto ID 579



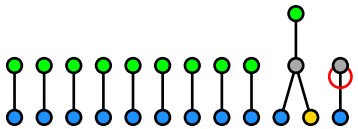
ID: 451 $V_{19} \boxtimes V_1$
Redundant



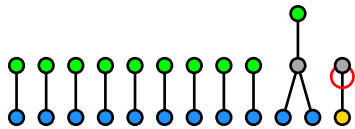
ID: 523 $V_{18} \boxtimes V_1 \boxtimes V_1$



ID: 525 $V_{19} \boxtimes V_1$
 \leftarrow ID 270

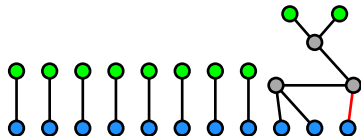


ID: 526 $V_{19} \boxtimes V_1$
Redundant

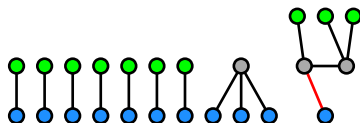


----- edges: 4 graphs: 20 -----
 ----- A2 case with weight 13 relations relation groups: 3 -----

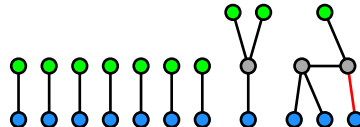
ID: 553 $V_1^8 \boxtimes V_2$
 \leftrightarrow ID 371



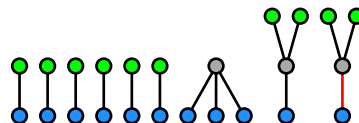
ID: 547 $V_1^7 \boxtimes V_1 \boxtimes V_2$



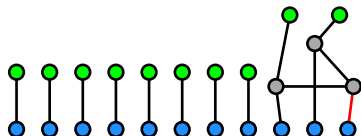
ID: 551 $V_1^7 \boxtimes V_2 \boxtimes V_1$
 Redundant



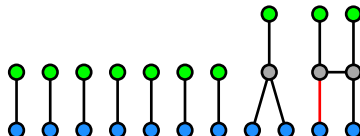
ID: 546 $V_1^6 \boxtimes V_2 \boxtimes V_2$
 Redundant



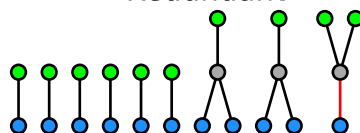
ID: 555 $V_1^8 \boxtimes V_1^2$



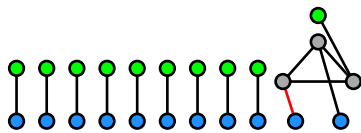
ID: 549 $V_1^7 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$



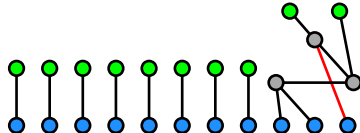
ID: 548 $V_1^6 \boxtimes V_2 \boxtimes V_2$
 Redundant



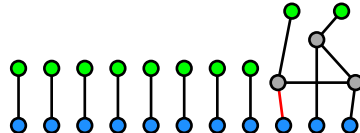
ID: 556 $V_1^9 \boxtimes V_1$
 \leftrightarrow ID 411



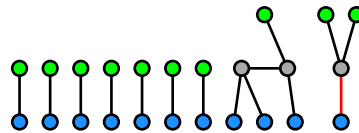
ID: 552 $V_1^8 \boxtimes V_1 \boxtimes V_1$
 \leftrightarrow ID 409



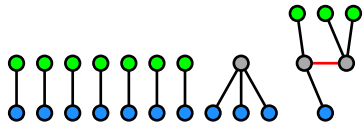
ID: 554 $V_1^8 \boxtimes V_1 \boxtimes V_1$
 Redundant



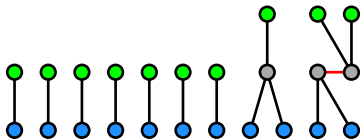
ID: 550 $V_1^7 \boxtimes V_1 \boxtimes V_2$
 Redundant



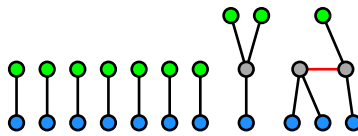
ID: 576 $V_1^7 \boxtimes V_1 \boxtimes V_2$
 \leftrightarrow ID 368



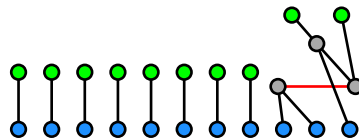
ID: 578 $V_1^7 \boxtimes V_1 \boxtimes V_2$
 \leftrightarrow ID 369



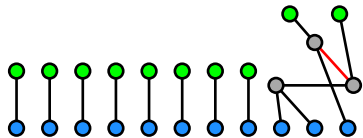
ID: 577 $V_1^7 \boxtimes V_2 \boxtimes V_1$
 \leftrightarrow ID 370



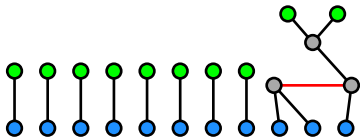
ID: 579 $V_1^8 \boxtimes V_1 \boxtimes V_1$
 \leftrightarrow ID 447



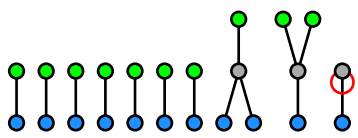
ID: 580 $V_1^8 \boxtimes V_1 \boxtimes V_1$
 \leftrightarrow ID 450



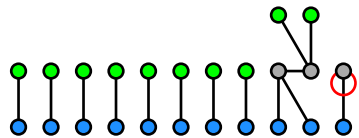
ID: 581 $V_1^8 \boxtimes V_2$
 \leftrightarrow ID 449



ID: 610 $V_1^7 \boxtimes V_1 \boxtimes V_2$



ID: 611 $V_1^8 \boxtimes V_2$
 \leftrightarrow ID 522



ID: 612 $V_1^8 \boxtimes V_2$
 \leftrightarrow ID 524

