

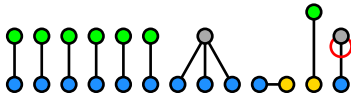
----- g,n: 5,7 graphs: 207 eliminated+redundant: 194 -----

Euler Characteristic (without relations): $5V_1^7 - 2V_1^6 \boxtimes V_1 - 1V_1^5 \boxtimes V_2 + 1V_1^5 \boxtimes V_1^2 - 4V_1^5 \boxtimes V_1 \boxtimes V_1 + 3V_1^4 \boxtimes V_1 \boxtimes V_2 + 1V_1^4 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$

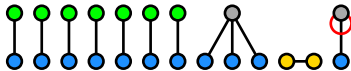
----- edges: 4 graphs: 9 -----

----- edges: 5 graphs: 57 -----
 ----- B,Birr cases with weight 11 relations relation groups: 4 -----

ID: 348 $V_1^6 \boxtimes V_1$

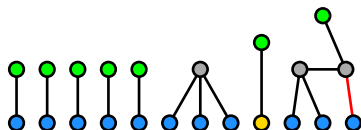


ID: 346 V_1^7

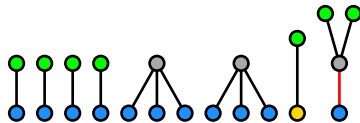


----- edges: 6 graphs: 92 -----
 ----- A2 case with weight 13 relations relation groups: 7 -----

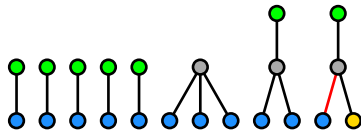
ID: 407 $V_1^5 \boxtimes V_1 \boxtimes V_1$



ID: 402 $V_1^4 \boxtimes V_1 \boxtimes V_2$

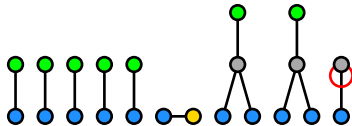


ID: 405 $V_1^5 \boxtimes V_1 \boxtimes V_1$



----- B,Birr cases without weight 11 relations graphs: 28 -----

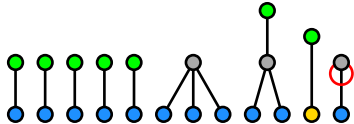
ID: 527 $V_1^5 \boxtimes V_2$



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

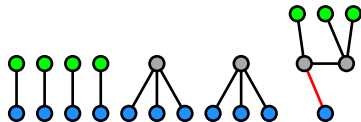
relation groups: 5 -----

ID: 523 $V_1^5 \boxtimes V_1 \boxtimes V_1$

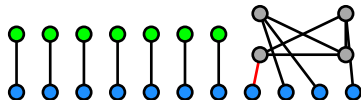


----- edges: 7 graphs: 49 -----
 ----- A2 case with weight 13 relations relation groups: 5 -----

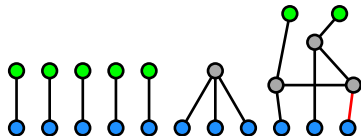
ID: 547 $V_1^4 \boxtimes V_1 \boxtimes V_2$



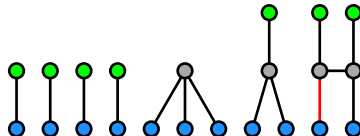
ID: 563 V_1^7



ID: 555 $V_1^5 \boxtimes V_1^2$

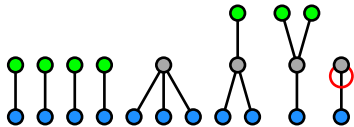


ID: 549 $V_1^4 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$



----- B,Birr cases without weight 11 relations graphs: 26 -----

ID: 610 $V_1^4 \boxtimes V_1 \boxtimes V_2$



ID: 614 $V_1^4 \boxtimes V_3$

