------- g,n: 7,4 graphs: 392 eliminated+redundant: 378 -------

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

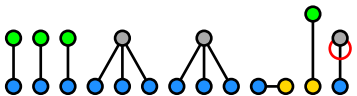
--------- edges: 6 graphs: 4 ---------

--------- edges: 7 graphs: 38 ---------

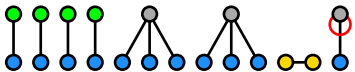
--- edges: 8 graphs: 126 ---

------- B,Birr cases with weight 11 relations relation groups: 5 -------

ID: 348 $V_{1^3} \boxtimes V_1$

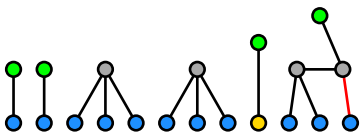


ID: 346 V_{1^4}

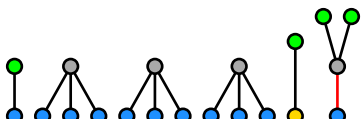


--- edges: 9 graphs: 155 ---
------- A2 case with weight 13 relations relation groups: 8 -------

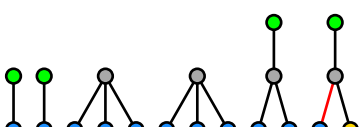
ID: 407 $V_{1^2} \boxtimes V_1 \boxtimes V_1$



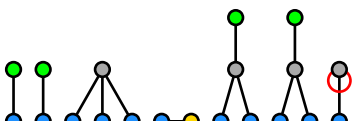
ID: 402 $V_1 \boxtimes V_1 \boxtimes V_2$



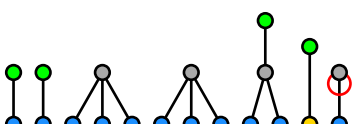
ID: 405 $V_{1^2} \boxtimes V_1 \boxtimes V_1$



ID: 527 $V_{1^2} \boxtimes V_2$

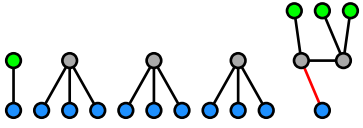


ID: 523 $V_1{}^2 \boxtimes V_1 \boxtimes V_1$

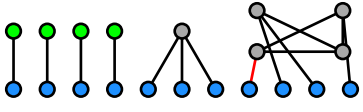


--------- edges: 10 graphs: 69 ---------
------- A2 case with weight 13 relations relation groups: 6 -------

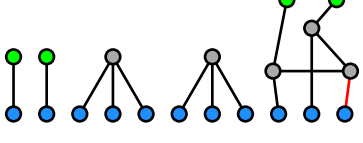
ID: 547 $V_1 \boxtimes V_1 \boxtimes V_2$



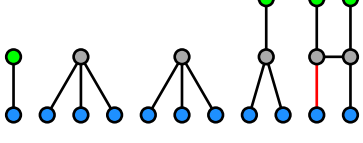
ID: 563 V_{1^4}



ID: 555 $V_{1^2} \boxtimes V_{1^2}$

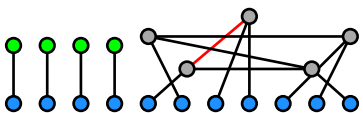


ID: 549 $V_1 \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$

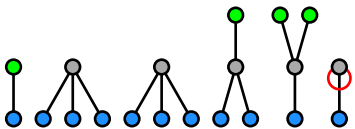


------- B,Birr cases without weight 11 relations graphs: 40 -------

ID: 606 V_{1^4}



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



ID: 614 $V_1 \boxtimes V_3$