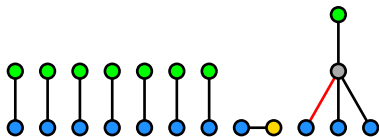
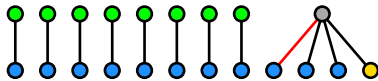


----- g,n: 4,8 ----- graphs: 40 ----- Euler Characteristic (without resolving relations):
 ----- $-2V_1^8 - 4V_1^7 \boxtimes V_1 + 1V_1^6 \boxtimes V_2 + 2V_1^6 \boxtimes V_1 \boxtimes V_1 + 1V_1^5 \boxtimes V_1 \boxtimes V_2$ -----
 ----- edges: 3 ----- graphs: 5 -----
 ----- A3 case ----- graphs: 4 -----

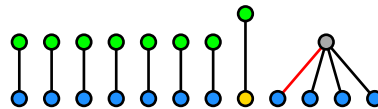
ID: 75 $V_1^7 \boxtimes V_1$
 \mapsto ID 80



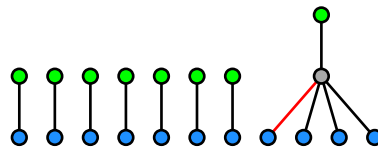
ID: 24 V_1^8
 \mapsto ID 33



ID: 53 $V_1^7 \boxtimes V_1$
 \mapsto ID 60

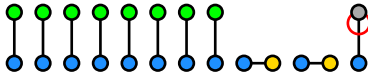


ID: 25 $V_1^7 \boxtimes V_1$
 \mapsto ID 30



----- B,Birr cases without weight 11 relations graphs: 1 -----

ID: 120 V_1^8
 \mapsto ID 69



----- edges: 4 graphs: 21 -----
 ----- A3 case graphs: 5 -----

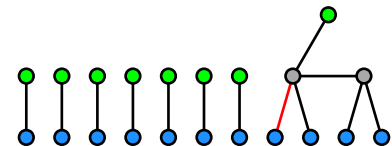
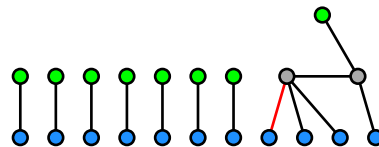
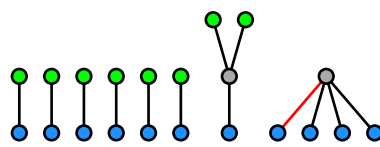
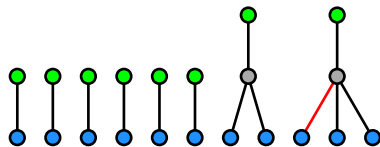
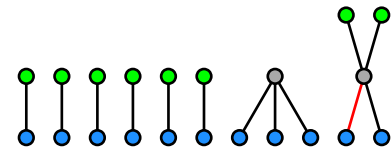
ID: 26 $V_{1^6} \boxtimes V_2$

ID: 91 $V_{1^6} \boxtimes V_1 \boxtimes V_1$
 \mapsto ID 96

ID: 57 $V_{1^6} \boxtimes V_2$
 \mapsto ID 64

ID: 29 $V_{1^7} \boxtimes V_1$
 \mapsto ID 38

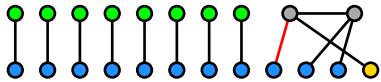
ID: 30 $V_{1^7} \boxtimes V_1$
 \leftarrow ID 25



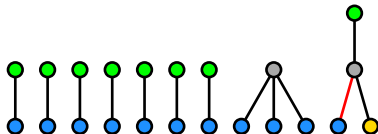
----- A2 case with weight 13 relations

relation groups: 2 -----

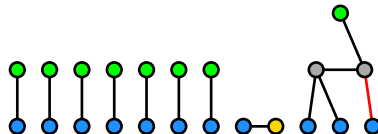
ID: 33 V_{1^8}
 \leftarrow ID 24



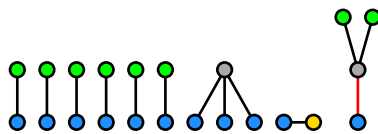
ID: 32 $V_{1^7} \boxtimes V_1$



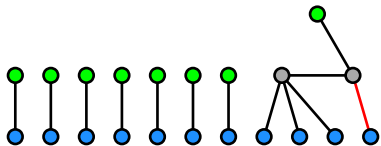
ID: 78 $V_{1^7} \boxtimes V_1$



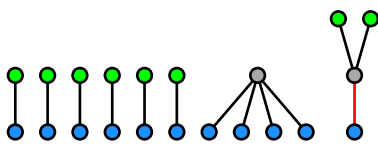
ID: 77 $V_{1^6} \boxtimes V_2$



ID: 34 $V_{1^7} \boxtimes V_1$
 \mapsto ID 37

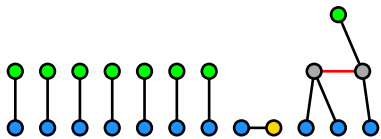


ID: 85 $V_{1^6} \boxtimes V_2$

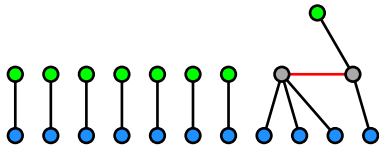


----- B,Birr cases without weight 11 relations graphs: 5 -----

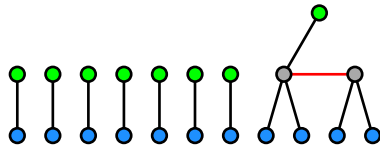
ID: 80 $V_{1^7} \boxtimes V_1$
 \leftrightarrow ID 75



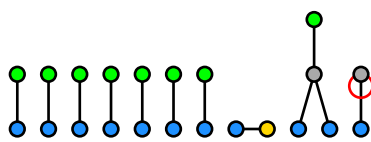
ID: 43 $V_{1^7} \boxtimes V_1$
 \mapsto ID 49



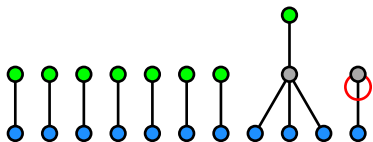
ID: 44 $V_{1^7} \boxtimes V_1$
 \mapsto ID 50



ID: 122 $V_{1^7} \boxtimes V_1$



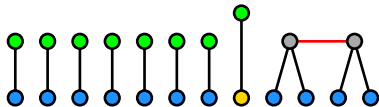
ID: 70 $V_{1^7} \boxtimes V_1$
 \mapsto ID 73



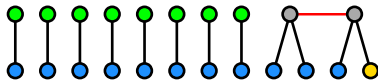
----- B,Birr cases with weight 11 relations

relation groups: 2 -----

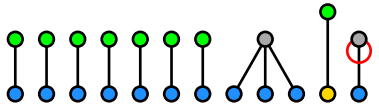
ID: 60 $V_{1^7} \boxtimes V_1$
← ID 53



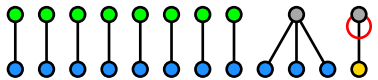
ID: 42 V_{1^8}



ID: 67 $V_{1^7} \boxtimes V_1$



ID: 52 V_{1^8}



ID: 69 V_{1^8}
← ID 120

