---------- g,n: 2,11   graphs: 9   ---------- Euler Characteristic (without resolving relations):
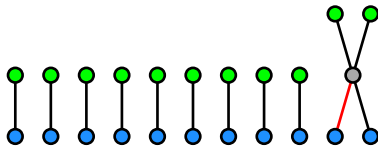
--------- $1V_{1^{11}} + 2V_{1^{10}} \boxtimes V_1 - 1V_{1^9} \boxtimes V_1 \boxtimes V_1 - 1V_{1^8} \boxtimes V_1 \boxtimes V_2$ ---------

--------- edges: 1   graphs: 5   ---------

------- A3 case   graphs: 1 -------

ID: 57 $V_{1^9} \boxtimes V_2$
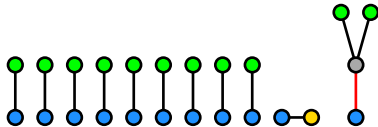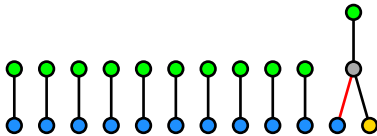
$\mapsto$ ID 113

------- A2 case with weight 13 relations   relation groups: 1 -------
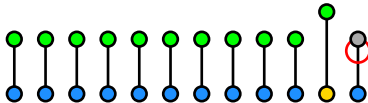
ID: 70 $V_1{}^{10} \boxtimes V_1$

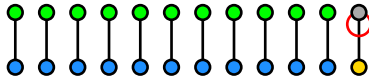ID: 69 $V_1{}^9 \boxtimes V_2$
redundant

------- B,Birr cases with weight 11 relations   relation groups: 1 -------
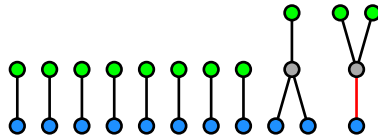
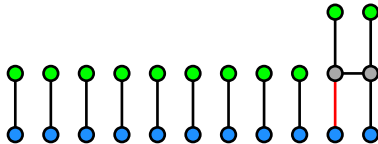ID: 97 $V_1{}^{10} \boxtimes V_1$

ID: 96 $V_1{}^{11}$
redundant

--------- edges: 2 graphs: 4 ---------
------- A2 case with weight 13 relations relation groups: 1 -------

ID: 106 $V_{1^9} \boxtimes V_1 \boxtimes V_1$

ID: 105 $V_{1^8} \boxtimes V_1 \boxtimes V_2$

redundant

------- B,Birr cases without weight 11 relations   graphs: 2 -------

ID: 113 $V_{1^9} \boxtimes V_2$
↩ ID 57

ID: 125 $V_{1^9} \boxtimes V_2$