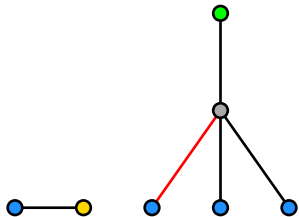


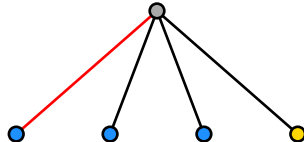
---- excess: 3 (g,n): (2, 11), (4, 8), (6, 5), (8, 2) graphs: 106 eliminated+redundant: 100 ----
 ----- edges: 10-n graphs: 6 -----

----- edges: 11-n graphs: 28
 --- A3 case graphs: 17 ---

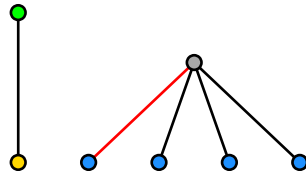
ID: 29 $V_{1^{n-1}} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 78



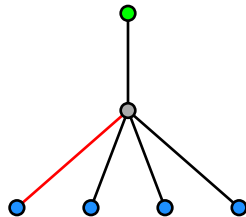
ID: 30 V_{1^n}
 n: 8 5 2 \mapsto ID 73



ID: 31 $V_{1^{n-1}} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 77



ID: 32 $V_{1^{n-1}} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 61



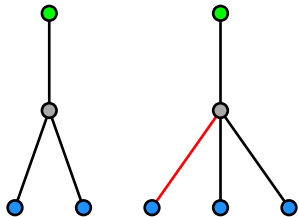
--- B,Birr cases without weight 11 relations graphs: 11 ---

ID: 53 V_1^n
n: 8 5 2 \mapsto ID 100

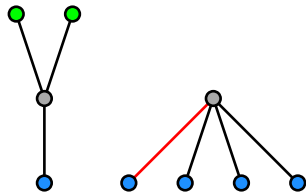


----- edges: 12-n graphs: 48 -----
 --- A3 case graphs: 12 ---

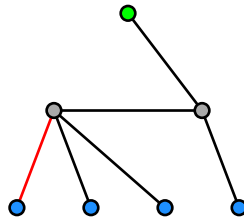
ID: 58 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 8 5 2 \mapsto ID 115



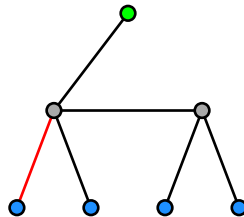
ID: 59 $V_1^{n-2} \boxtimes V_2$
 n: 8 5 2 \mapsto ID 114



ID: 60 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 110



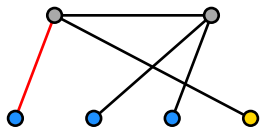
ID: 61 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \leftrightarrow ID 32



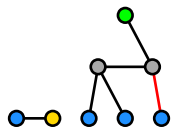
--- A2 case with weight 13 relations

relation groups: 2 ---

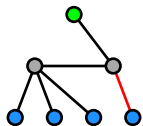
ID: 73 V_1^n
n: 8 5 2 \leftarrow ID 30



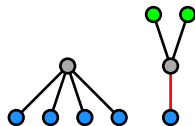
ID: 71 $V_1^{n-1} \boxtimes V_1$
n: 8 5 2 Redundant



ID: 74 $V_1^{n-1} \boxtimes V_1$
n: 8 5 2 \mapsto ID 109

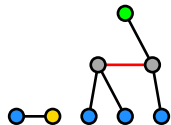


ID: 72 $V_1^{n-2} \boxtimes V_2$
n: 8 5 2 Redundant

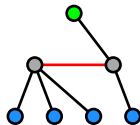


--- B,Birr cases without weight 11 relations graphs: 22 ---

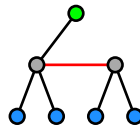
ID: 78 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 29



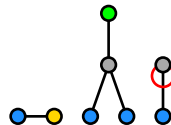
ID: 80 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 116



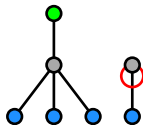
ID: 81 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 117



ID: 98 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2

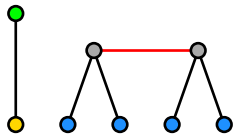


ID: 99 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \mapsto ID 127

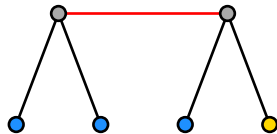


--- B,Birr cases with weight 11 relations relation groups: 2 ---

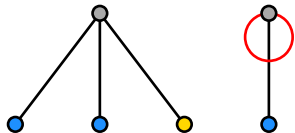
ID: 77 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 31



ID: 79 V_1^n
 n: 8 5 2 Redundant

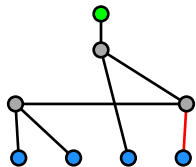


ID: 100 V_1^n
 n: 8 5 2 \leftarrow ID 53

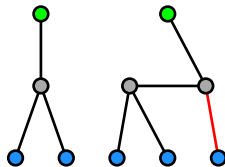


----- edges: 13-n graphs: 24 -----
 --- A2 case with weight 13 relations relation groups: 2 ---

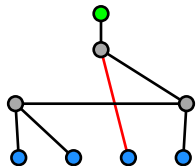
ID: 110 $V_{1^{n-1}} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 60



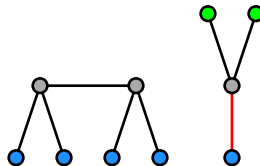
ID: 108 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
 n: 8 5 2 Redundant



ID: 109 $V_{1^{n-1}} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 74

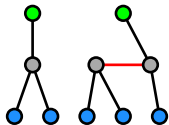


ID: 107 $V_{1^{n-2}} \boxtimes V_2$
 n: 8 5 2 Redundant

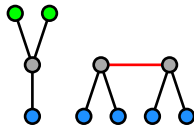


--- B,Birr cases without weight 11 relations graphs: 16 ---

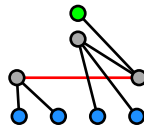
ID: 115 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 58



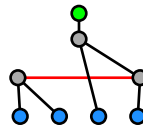
ID: 114 $V_1^{n-2} \boxtimes V_2$
 n: 8 5 2 \leftarrow ID 59



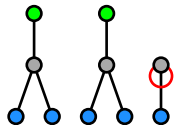
ID: 116 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 80



ID: 117 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 81



ID: 126 $V_1^{n-2} \boxtimes V_2$
 n: 8 5 2



ID: 127 $V_1^{n-1} \boxtimes V_1$
 n: 8 5 2 \leftarrow ID 99

