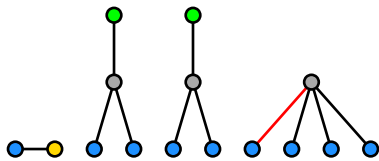
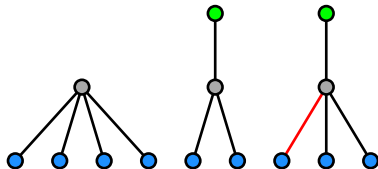


----- edges: 12-n graphs: 165
 --- A3 case graphs: 66 ---

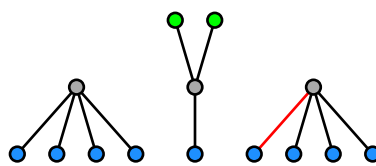
ID: 227 $V_{1^{n-2}} \boxtimes V_2$
 n: 4 \mapsto ID 476



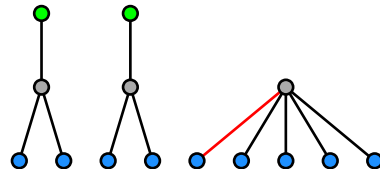
ID: 228 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
 n: 4 \mapsto ID 387



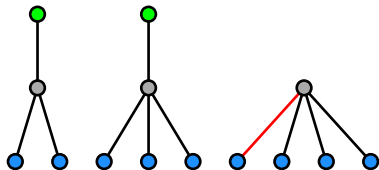
ID: 229 $V_{1^{n-2}} \boxtimes V_2$
 n: 4 \mapsto ID 388



ID: 230 $V_{1^{n-2}} \boxtimes V_2$
 n: 4 \mapsto ID 390

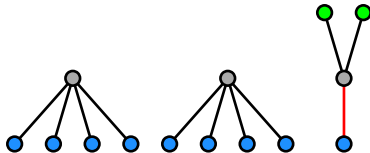


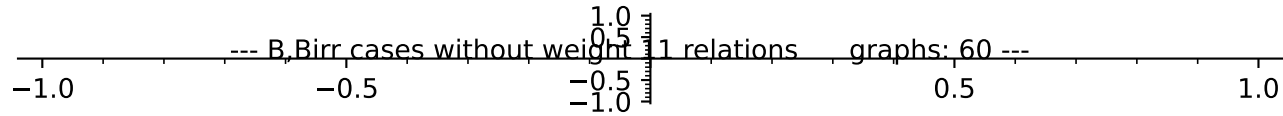
ID: 231 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
 n: 4 \mapsto ID 391

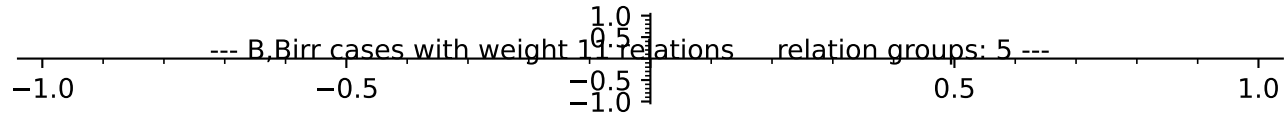


--- A2 case with weight 13 relations relation groups: 4 ---

ID: 279 $V_1^{n-2} \boxtimes V_2$
n: 4 \mapsto ID 431 RED

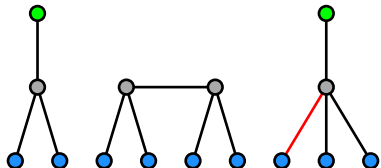




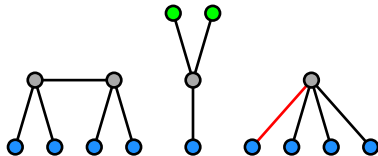


----- edges: 13-n graphs: 178 -----
 --- A3 case graphs: 34 ---

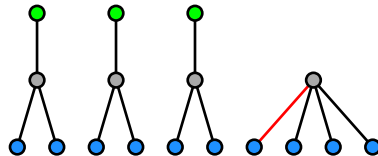
ID: 387 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 4 \leftarrow ID 228



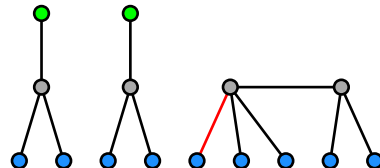
ID: 388 $V_1^{n-2} \boxtimes V_2$
 n: 4 \leftarrow ID 229



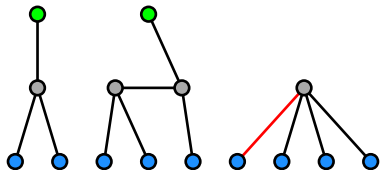
ID: 389 $V_1^{n-3} \boxtimes V_3$
 n: 4 \mapsto ID 596



ID: 390 $V_1^{n-2} \boxtimes V_2$
 n: 4 \leftarrow ID 230

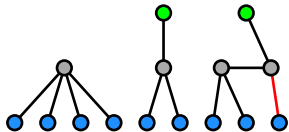


ID: 391 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 4 \leftarrow ID 231

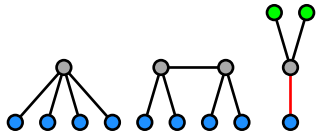


--- A2 case with weight 13 relations relation groups: 8 ---

ID: 432 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
 n: 4 \mapsto ID 569 RED

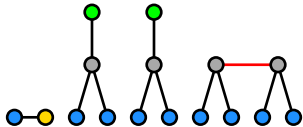


ID: 431 $V_{1^{n-2}} \boxtimes V_2$
 n: 4 \leftarrow ID 279 RED

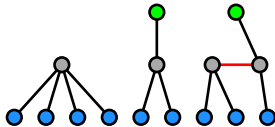


--- B,Birr cases without weight 11 relations graphs: 76 ---

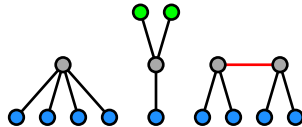
ID: 476 $V_1^{n-2} \boxtimes V_2$
n: 4 \leftarrow ID 227



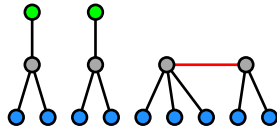
ID: 480 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 4 \mapsto ID 599



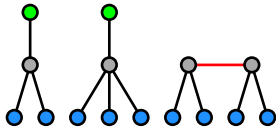
ID: 477 $V_1^{n-2} \boxtimes V_2$
n: 4 \mapsto ID 595



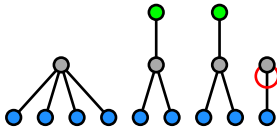
ID: 479 $V_1^{n-2} \boxtimes V_2$
n: 4 \mapsto ID 598

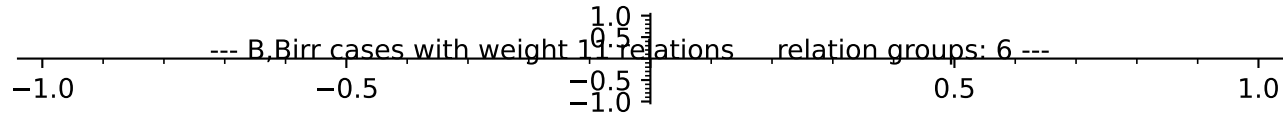


ID: 478 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 4 \mapsto ID 597



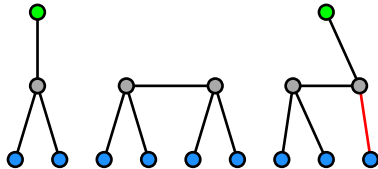
ID: 537 $V_1^{n-2} \boxtimes V_2$
n: 4 \mapsto ID 617





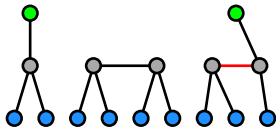
----- edges: 14-n graphs: 73 -----
 --- A2 case with weight 13 relations relation groups: 6 ---

ID: 569 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
 n: 4 \leftarrow ID 432 RED

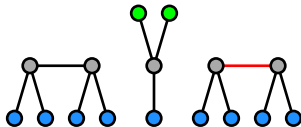


--- B,Birr cases without weight 11 relations graphs: 43 ---

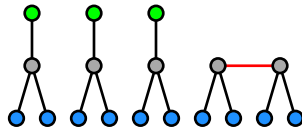
ID: 599 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 4 \leftarrow ID 480



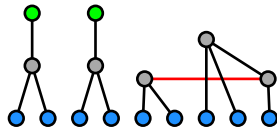
ID: 595 $V_1^{n-2} \boxtimes V_2$
n: 4 \leftarrow ID 477



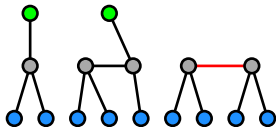
ID: 596 $V_1^{n-3} \boxtimes V_3$
n: 4 \leftarrow ID 389



ID: 598 $V_1^{n-2} \boxtimes V_2$
n: 4 \leftarrow ID 479



ID: 597 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 4 \leftarrow ID 478



ID: 617 $V_1^{n-2} \boxtimes V_2$
n: 4 \leftarrow ID 537

