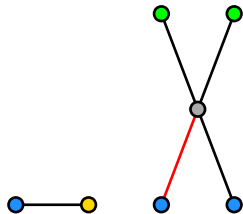
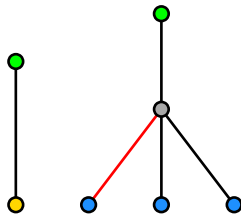


----- edges: 12-n  
 --- A3 case      graphs: 165  
                      graphs: 66    ---

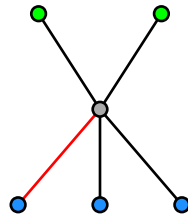
ID: 203     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 448



ID: 204     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4     $\mapsto$  ID 372

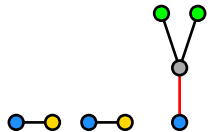


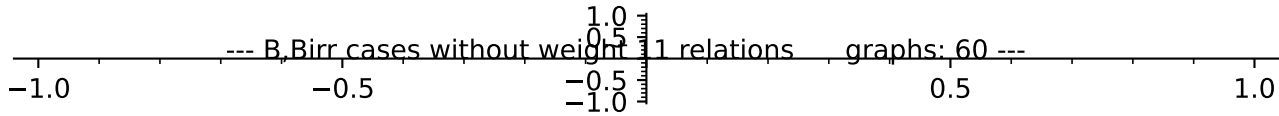
ID: 205     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 373

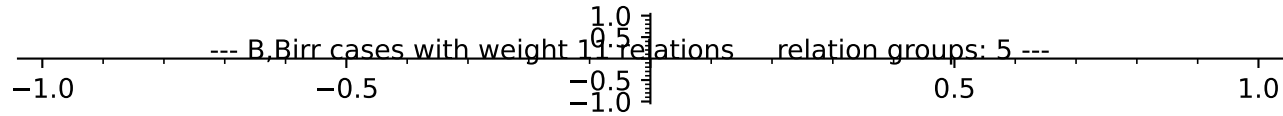


--- A2 case with weight 13 relations      relation groups: 4 ---

ID: 269     $V_1^{n-2} \boxtimes V_2$   
n: 10 7 4     $\mapsto$  ID 408 RED

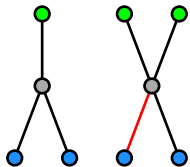




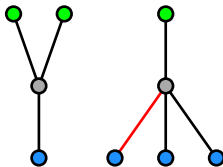


----- edges: 13-n      graphs: 178      -----  
 --- A3 case      graphs: 34 ---

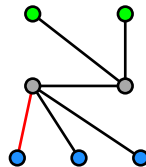
ID: 369     $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 578



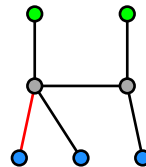
ID: 370     $V_1^{n-3} \boxtimes V_2 \boxtimes V_1$   
 n: 10 7 4     $\mapsto$  ID 577



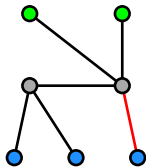
ID: 371     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 553



ID: 372     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4     $\leftarrow$  ID 204

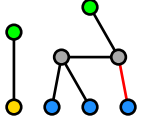


ID: 373     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\leftarrow$  ID 205

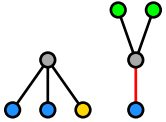




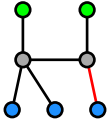
ID: 407  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
n: 10 7 4



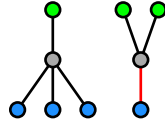
ID: 408  $V_{1^{n-2}} \boxtimes V_2$   
n: 10 7 4       $\leftarrow$  ID 269 RED



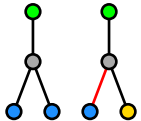
ID: 409  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
n: 10 7 4       $\mapsto$  ID 552



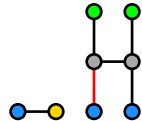
ID: 406  $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$   
n: 10 7 4      Redundant



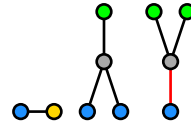
ID: 405  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
n: 10 7 4



ID: 404  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
n: 10 7 4      Redundant

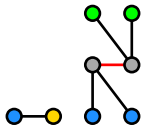


ID: 403  $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$   
n: 10 7 4      Redundant

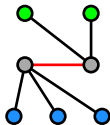


--- B,Birr cases without weight 11 relations      graphs: 76 ---

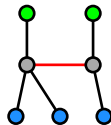
ID: 448     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\leftarrow$  ID 203



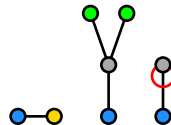
ID: 449     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 581



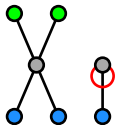
ID: 450     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4     $\mapsto$  ID 580



ID: 522     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 611

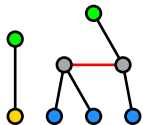


ID: 524     $V_1^{n-2} \boxtimes V_2$   
 n: 10 7 4     $\mapsto$  ID 612

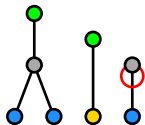


--- B,Birr cases with weight 11 relations      relation groups: 6 ---

ID: 447     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4     $\mapsto$  ID 579

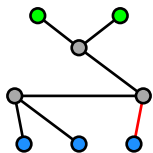


ID: 523     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4

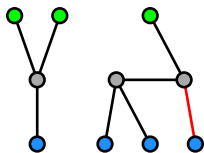


----- edges: 14-n      graphs: 73      -----  
 --- A2 case with weight 13 relations      relation groups: 6 ---

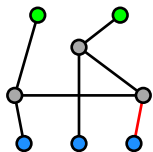
ID: 553  $V_{1^{n-2}} \boxtimes V_2$   
 n: 10 7 4  $\leftarrow$  ID 371



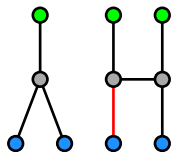
ID: 551  $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$   
 n: 10 7 4 Redundant



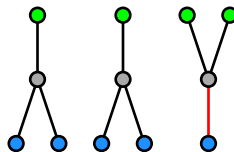
ID: 555  $V_{1^{n-2}} \boxtimes V_1^2$   
 n: 10 7 4



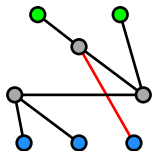
ID: 549  $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4



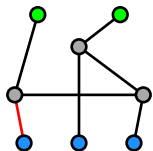
ID: 548  $V_{1^{n-4}} \boxtimes V_2 \boxtimes V_2$   
 n: 10 7 4 Redundant



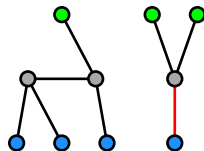
ID: 552  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4  $\leftarrow$  ID 409



ID: 554  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 10 7 4 Redundant

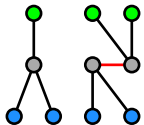


ID: 550  $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$   
 n: 10 7 4 Redundant

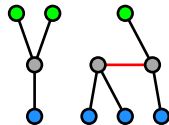


--- B,Birr cases without weight 11 relations      graphs: 43 ---

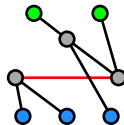
ID: 578     $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$   
n: 10 7 4     $\leftarrow$ ID 369



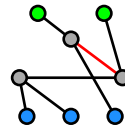
ID: 577     $V_1^{n-3} \boxtimes V_2 \boxtimes V_1$   
n: 10 7 4     $\leftarrow$ ID 370



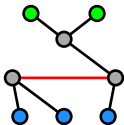
ID: 579     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 10 7 4     $\leftarrow$ ID 447



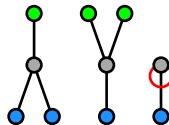
ID: 580     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 10 7 4     $\leftarrow$ ID 450



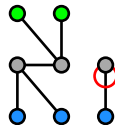
ID: 581     $V_1^{n-2} \boxtimes V_2$   
n: 10 7 4     $\leftarrow$ ID 449



ID: 610     $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$   
n: 10 7 4



ID: 611     $V_1^{n-2} \boxtimes V_2$   
n: 10 7 4     $\leftarrow$ ID 522



ID: 612     $V_1^{n-2} \boxtimes V_2$   
n: 10 7 4     $\leftarrow$ ID 524

