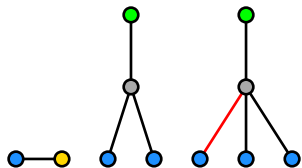
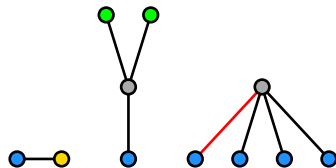


----- edges: 12-n      graphs: 165      -----  
 --- A3 case      graphs: 66 ---

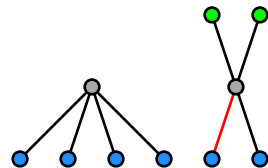
ID: 207     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



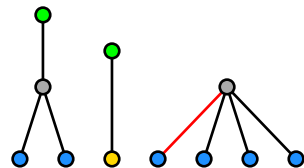
ID: 208     $V_{1^{n-2}} \boxtimes V_2$   
 n: 7 4



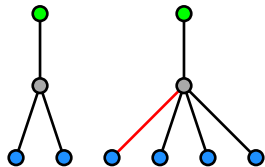
ID: 209     $V_{1^{n-2}} \boxtimes V_2$   
 n: 7 4



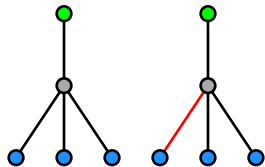
ID: 210     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



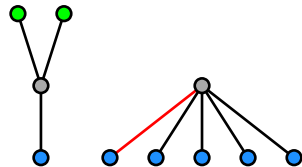
ID: 211     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



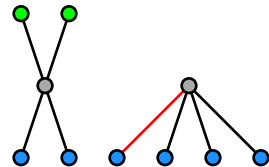
ID: 212     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



ID: 213     $V_{1^{n-2}} \boxtimes V_2$   
 n: 7 4



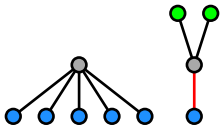
ID: 214     $V_{1^{n-2}} \boxtimes V_2$   
 n: 7 4



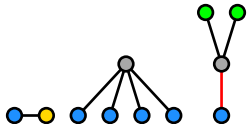
--- A2 case with weight 13 relations

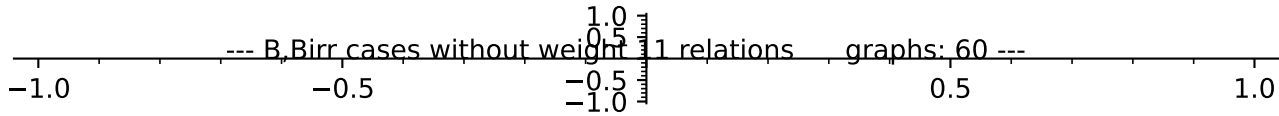
relation groups: 4 ---

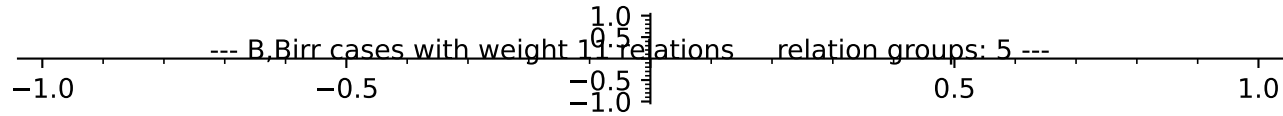
ID: 272  $V_1^{n-2} \boxtimes V_2$   
n: 7 4



ID: 271  $V_1^{n-2} \boxtimes V_2$   
n: 7 4

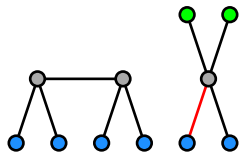




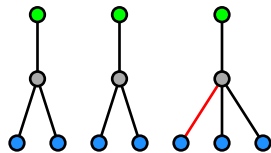


----- edges: 13-n      graphs: 176      -----  
 --- A3 case      graphs: 34      ---

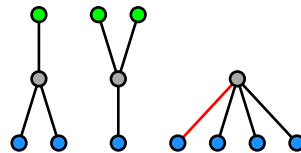
ID: 374  $V_1^{n-2} \boxtimes V_2$   
 n: 7 4



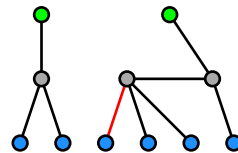
ID: 375  $V_1^{n-3} \boxtimes V_2 \boxtimes V_1$   
 n: 7 4



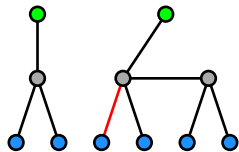
ID: 376  $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$   
 n: 7 4



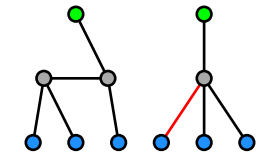
ID: 377  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



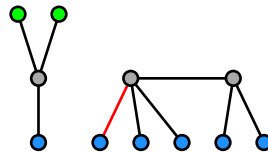
ID: 378  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



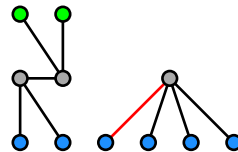
ID: 379  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



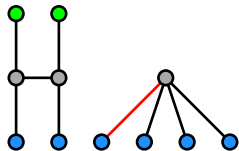
ID: 380  $V_1^{n-2} \boxtimes V_2$   
 n: 7 4



ID: 381  $V_1^{n-2} \boxtimes V_2$   
 n: 7 4



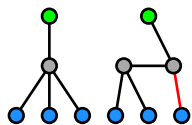
ID: 382  $V_1^{n-2} \boxtimes V_2$   
 n: 7 4





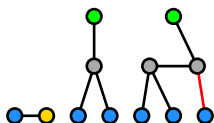
ID: 418  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$

n: 7 4



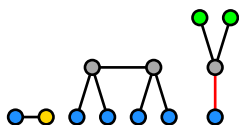
ID: 413  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$

n: 7 4



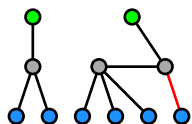
ID: 412  $V_1^{n-2} \boxtimes V_2$

n: 7 4



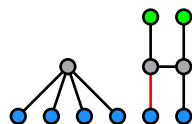
ID: 417  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$

n: 7 4



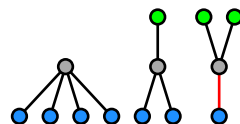
ID: 415  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$

n: 7 4



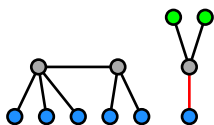
ID: 414  $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$

n: 7 4



ID: 416  $V_1^{n-2} \boxtimes V_2$

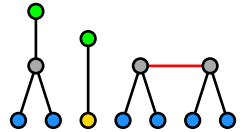
n: 7 4





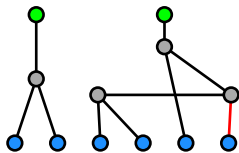
--- B,Birr cases with weight 11 relations      relation groups: 6 ---

ID: 453     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4

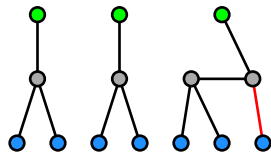


----- edges: 14-n    graphs: 73    -----  
 --- A2 case with weight 13 relations    relation groups: 6 ---

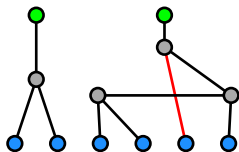
ID: 559     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



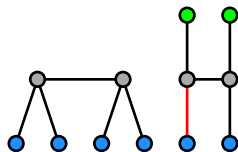
ID: 557     $V_1^{n-3} \boxtimes V_2 \boxtimes V_1$   
 n: 7 4



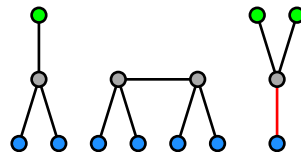
ID: 558     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



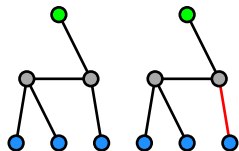
ID: 556     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4



ID: 555     $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$   
 n: 7 4

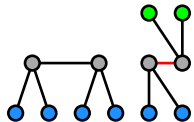


ID: 560     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 7 4

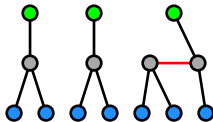


--- B,Birr cases without weight 11 relations      graphs: 43 ---

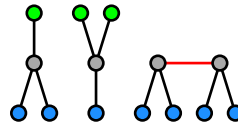
ID: 588    $V_1^{n-2} \boxtimes V_2$   
n: 7 4



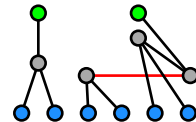
ID: 584    $V_1^{n-3} \boxtimes V_2 \boxtimes V_1$   
n: 7 4



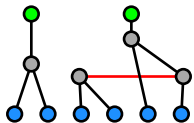
ID: 580    $V_1^{n-3} \boxtimes V_1 \boxtimes V_2$   
n: 7 4



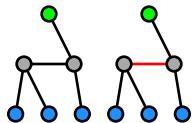
ID: 586    $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 7 4



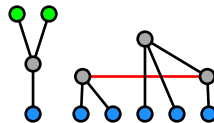
ID: 587    $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 7 4



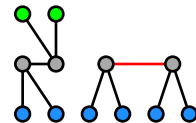
ID: 585    $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 7 4



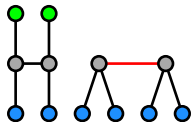
ID: 583    $V_1^{n-2} \boxtimes V_2$   
n: 7 4



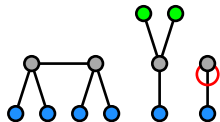
ID: 581    $V_1^{n-2} \boxtimes V_2$   
n: 7 4



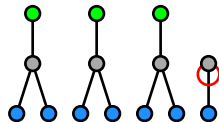
ID: 582    $V_1^{n-2} \boxtimes V_2$   
n: 7 4



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



ID: 612    $V_1^{n-3} \boxtimes V_3$   
n: 7 4



ID: 613    $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 7 4

