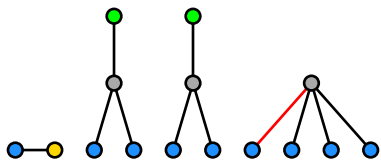


----- edges: 12-n      graphs: 165  
 --- A3 case      graphs: 66 ---

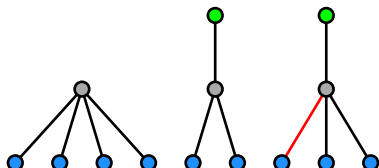
ID: 227  $V_{1^{n-2}} \boxtimes V_2$

n: 4



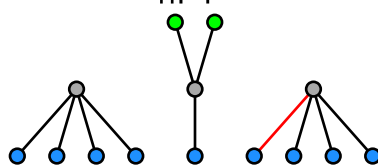
ID: 228  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 4



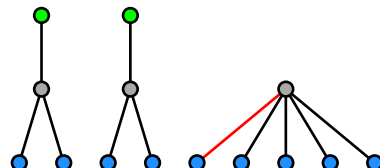
ID: 229  $V_{1^{n-2}} \boxtimes V_2$

n: 4



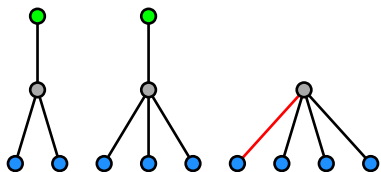
ID: 230  $V_{1^{n-2}} \boxtimes V_2$

n: 4



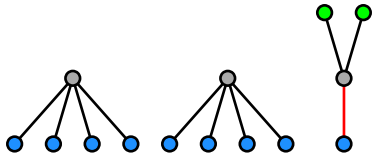
ID: 231  $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

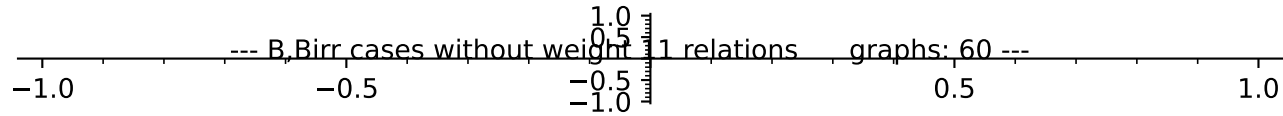
n: 4

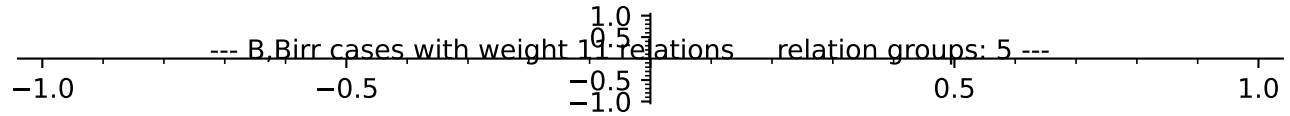


--- A2 case with weight 13 relations      relation groups: 4 ---

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

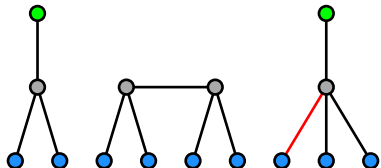




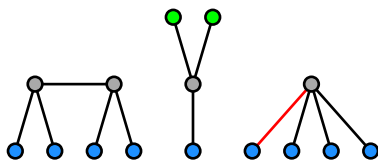


----- edges: 13-n      graphs: 178      -----  
 --- A3 case      graphs: 34      ---

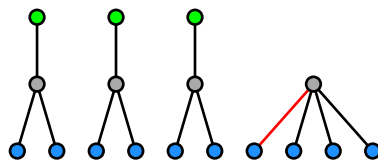
ID: 387  $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
 n: 4



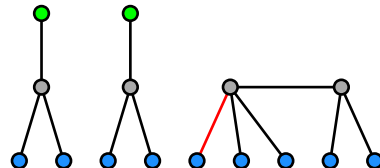
ID: 388  $V_1^{n-2} \boxtimes V_2$   
 n: 4



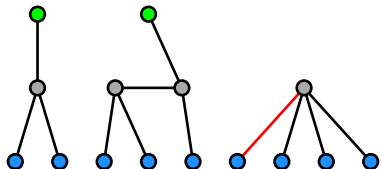
ID: 389  $V_1^{n-3} \boxtimes V_3$   
 n: 4



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



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

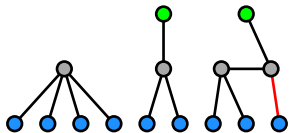




--- A2 case with weight 13 relations      relation groups: 8 ---

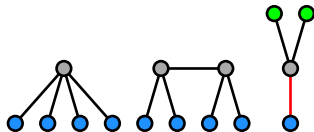
ID: 432     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 4



ID: 431     $V_{1^{n-2}} \boxtimes V_2$

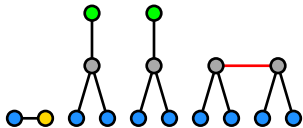
n: 4



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

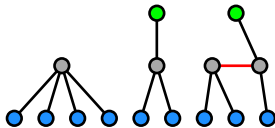
ID: 476     $V_{1^{n-2}} \boxtimes V_2$

n: 4



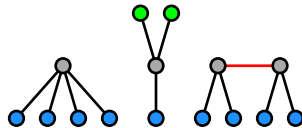
ID: 480     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

n: 4



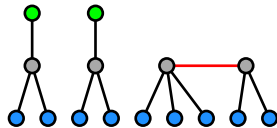
ID: 477     $V_{1^{n-2}} \boxtimes V_2$

n: 4



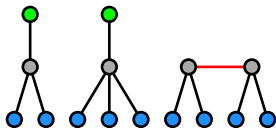
ID: 479     $V_{1^{n-2}} \boxtimes V_2$

n: 4



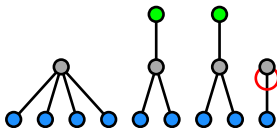
ID: 478     $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$

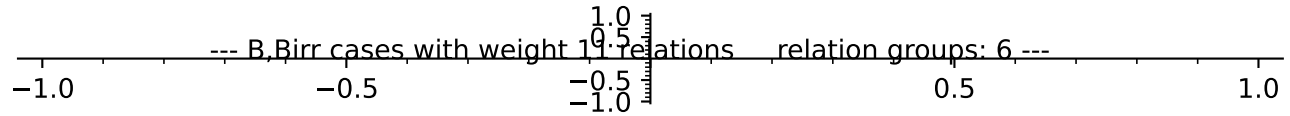
n: 4



ID: 537     $V_{1^{n-2}} \boxtimes V_2$

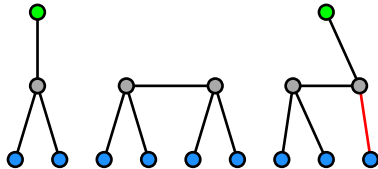
n: 4





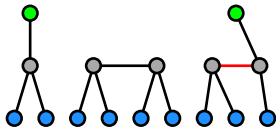
----- edges: 14-n      graphs: 73      -----  
 --- A2 case with weight 13 relations      relation groups: 6 ---

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

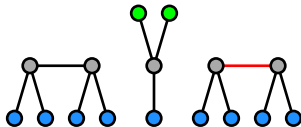


--- B,Birr cases without weight 11 relations      graphs: 43 ---

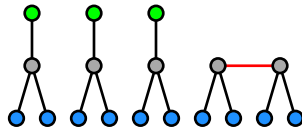
ID: 599     $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$   
n: 4



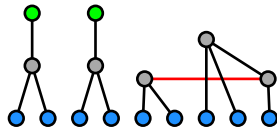
ID: 595     $V_1^{n-2} \boxtimes V_2$   
n: 4



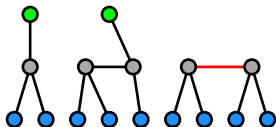
ID: 596     $V_1^{n-3} \boxtimes V_3$   
n: 4



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



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



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

