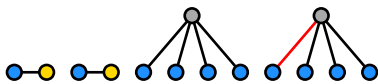
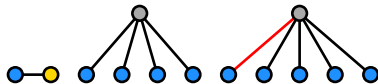


---- excess: 4    (g,n): (1, 13), (3, 10), (5, 7), (7, 4), (9, 1)    graphs: 488 ----  
 ----- edges: 10-n    graphs: 10 -----  
 --- A3 case    graphs: 10 ---

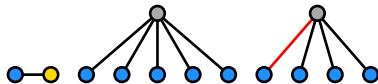
ID: 133     $V_1^n$   
 n: 1



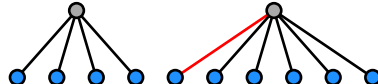
ID: 134     $V_1^n$   
 n: 1



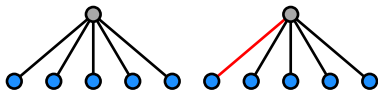
ID: 135     $V_1^n$   
 n: 1



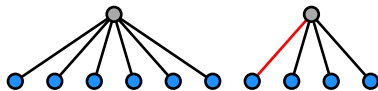
ID: 136     $V_1^n$   
 n: 1



ID: 137     $V_1^n$   
 n: 1

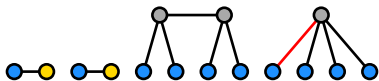


ID: 138     $V_1^n$   
 n: 1

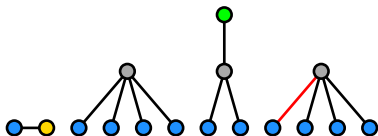


----- edges: 11-n      graphs: 64  
 --- A3 case      graphs: 45 ---

ID: 167  $V_1^n$   
 n: 1



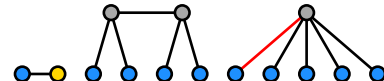
ID: 168  $V_1^{n-1} \boxtimes V_1$   
 n: 1



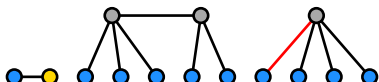
ID: 169  $V_1^n$   
 n: 1



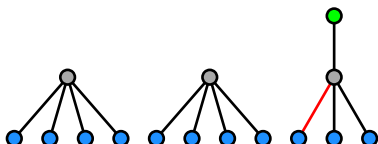
ID: 170  $V_1^n$   
 n: 1



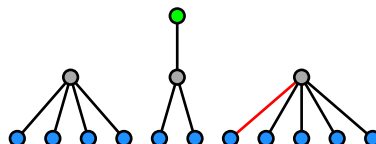
ID: 171  $V_1^n$   
 n: 1



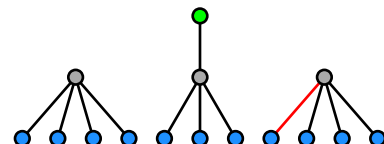
ID: 172  $V_1^{n-1} \boxtimes V_1$   
 n: 1



ID: 173  $V_1^{n-1} \boxtimes V_1$   
 n: 1



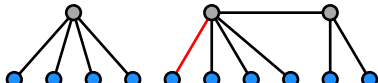
ID: 174  $V_1^{n-1} \boxtimes V_1$   
 n: 1



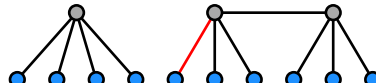
ID: 175  $V_1^n$   
 n: 1



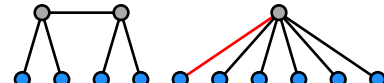
ID: 176  $V_1^n$   
 n: 1



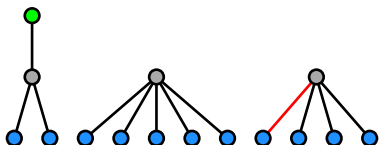
ID: 177  $V_1^n$   
 n: 1



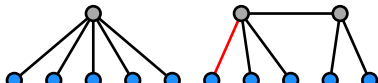
ID: 178  $V_1^n$   
 n: 1



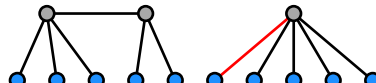
ID: 179  $V_1^{n-1} \boxtimes V_1$   
 n: 1



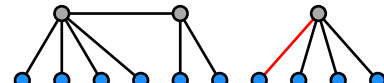
ID: 180  $V_1^n$   
 n: 1



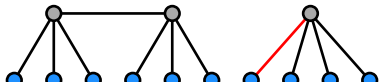
ID: 181  $V_1^n$   
 n: 1



ID: 182  $V_1^n$   
 n: 1



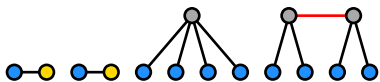
ID: 183  $V_1^n$   
 n: 1



--- B,Birr cases without weight 11 relations      graphs: 19 ---

ID: 190  $V_1^n$

n: 1



ID: 193  $V_1^n$

n: 1



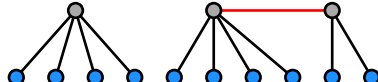
ID: 191  $V_1^n$

n: 1



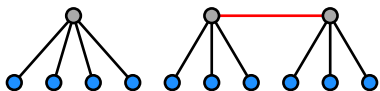
ID: 195  $V_1^n$

n: 1



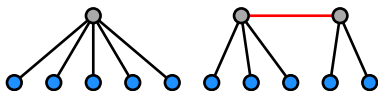
ID: 196  $V_1^n$

n: 1



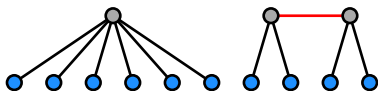
ID: 194  $V_1^n$

n: 1



ID: 192  $V_1^n$

n: 1



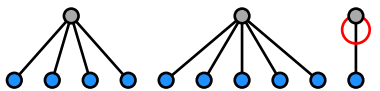
ID: 201  $V_1^n$

n: 1



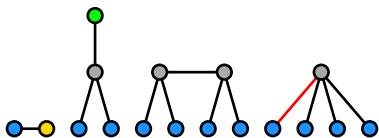
ID: 202  $V_1^n$

n: 1

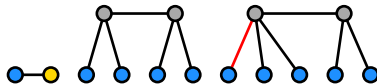


----- edges: 12-n      graphs: 165      -----  
 --- A3 case      graphs: 66      ---

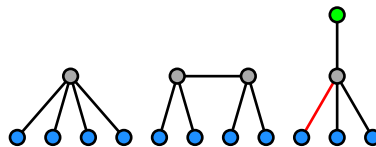
ID: 255  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



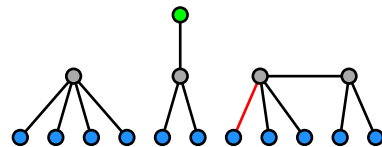
ID: 256  $V_{1^n}$   
 n: 1



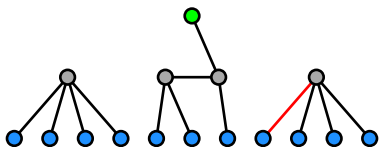
ID: 257  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



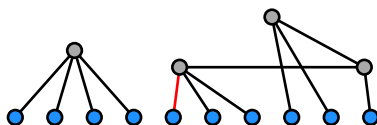
ID: 258  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



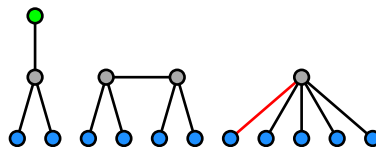
ID: 259  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



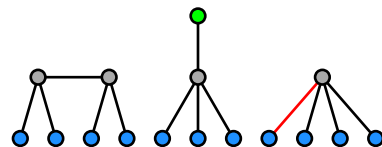
ID: 260  $V_{1^n}$   
 n: 1



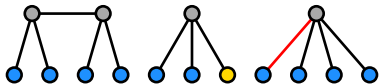
ID: 261  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



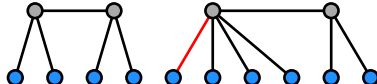
ID: 262  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



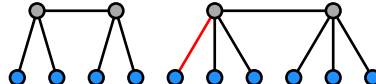
ID: 263  $V_{1^n}$   
 n: 1



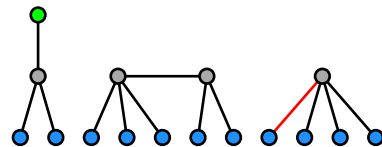
ID: 264  $V_{1^n}$   
 n: 1



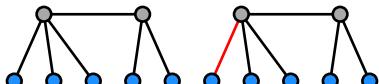
ID: 265  $V_{1^n}$   
 n: 1



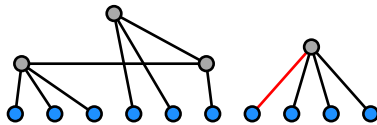
ID: 266  $V_{1^{n-1}} \boxtimes V_1$   
 n: 1



ID: 267  $V_{1^n}$   
 n: 1



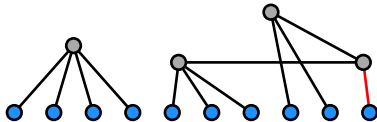
ID: 268  $V_{1^n}$   
 n: 1



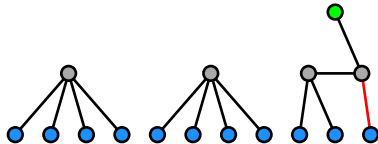
--- A2 case with weight 13 relations

relation groups: 4 ---

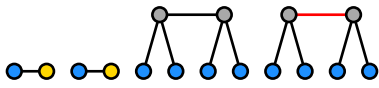
ID: 287  $V_1^n$   
n: 1



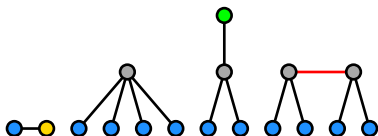
ID: 286  $V_1^{n-1} \boxtimes V_1$   
n: 1



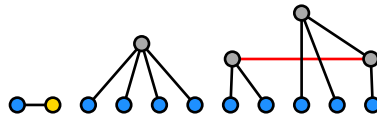
ID: 327  $V_1^n$   
n: 1



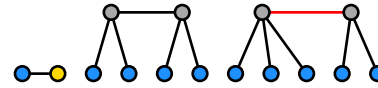
ID: 328  $V_1^{n-1} \boxtimes V_1$   
n: 1



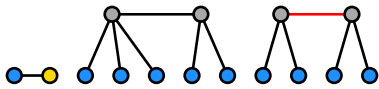
ID: 338  $V_1^n$   
n: 1



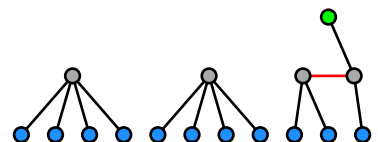
ID: 335  $V_1^n$   
n: 1



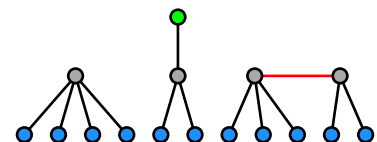
ID: 329  $V_1^n$   
n: 1



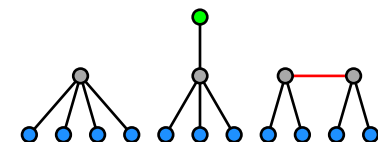
ID: 340  $V_1^{n-1} \boxtimes V_1$   
n: 1



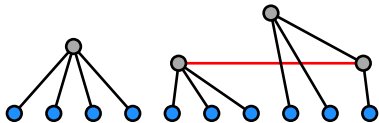
ID: 336  $V_1^{n-1} \boxtimes V_1$   
n: 1



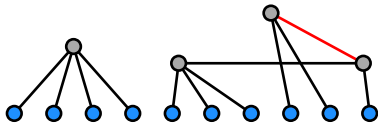
ID: 330  $V_1^{n-1} \boxtimes V_1$   
n: 1



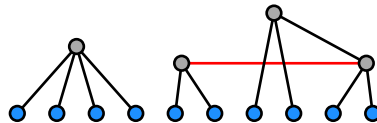
ID: 343  $V_1^n$   
n: 1



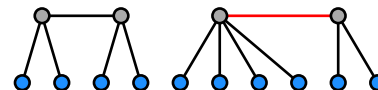
ID: 345  $V_1^n$   
n: 1



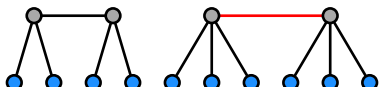
ID: 344  $V_1^n$   
n: 1



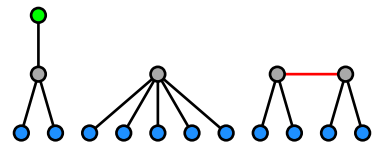
ID: 341  $V_1^n$   
n: 1



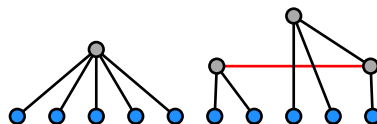
ID: 342  $V_1^n$   
n: 1



ID: 332  $V_1^{n-1} \boxtimes V_1$   
n: 1



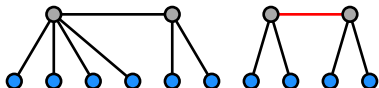
ID: 339  $V_1^n$   
n: 1



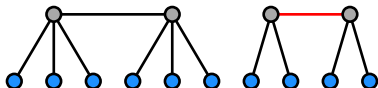
ID: 337  $V_1^n$   
n: 1



ID: 333  $V_1^n$   
n: 1



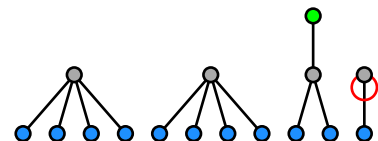
ID: 334  $V_1^n$   
n: 1



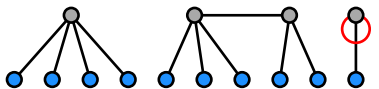
ID: 364  $V_1^n$   
n: 1



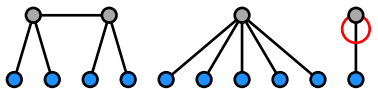
ID: 365  $V_1^{n-1} \boxtimes V_1$   
n: 1



ID: 366  $V_1^n$   
n: 1

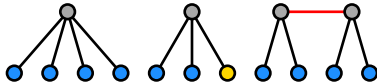


ID: 367  $V_1^n$   
n: 1



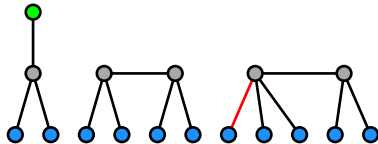
--- B,Birr cases with weight 11 relations      relation groups: 5 ---

ID: 331     $V_1^n$   
n: 1

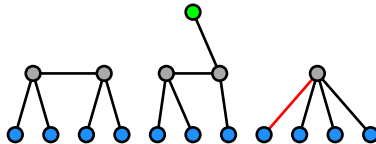


----- edges: 13-n      graphs: 176  
 --- A3 case      graphs: 34 ---

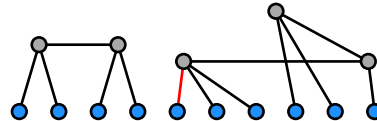
ID: 399     $V_1^{n-1} \boxtimes V_1$   
 n: 1



ID: 400     $V_1^{n-1} \boxtimes V_1$   
 n: 1



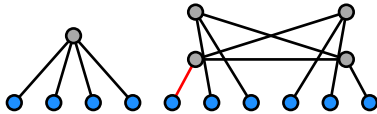
ID: 401     $V_1^n$   
 n: 1



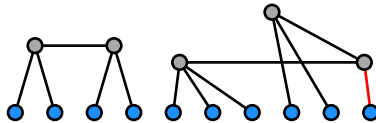


--- A2 case with weight 13 relations      relation groups: 8 ---

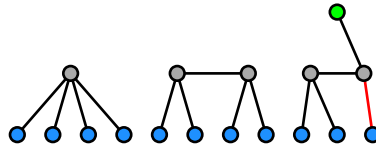
ID: 445     $V_1^n$   
n: 1



ID: 446     $V_1^n$   
n: 1



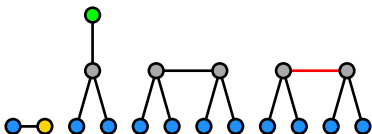
ID: 444     $V_1^{n-1} \boxtimes V_1$   
n: 1



--- B,Birr cases without weight 11 relations      graphs: 74 ---

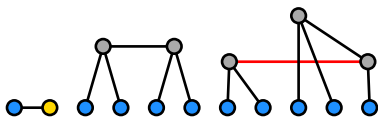
ID: 505  $V_{1^{n-1}} \boxtimes V_1$

n: 1



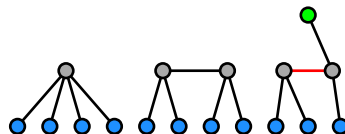
ID: 512  $V_{1^n}$

n: 1



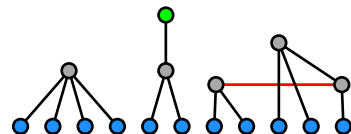
ID: 515  $V_{1^{n-1}} \boxtimes V_1$

n: 1



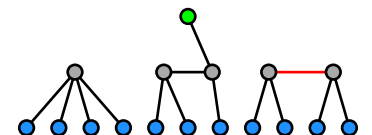
ID: 513  $V_{1^{n-1}} \boxtimes V_1$

n: 1



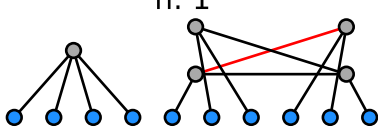
ID: 506  $V_{1^{n-1}} \boxtimes V_1$

n: 1



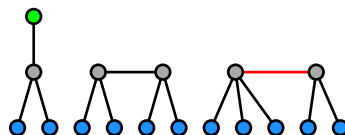
ID: 519  $V_{1^n}$

n: 1



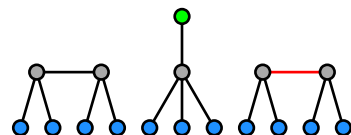
ID: 511  $V_{1^{n-1}} \boxtimes V_1$

n: 1



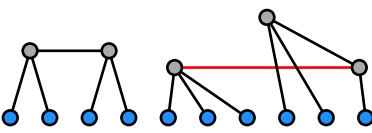
ID: 507  $V_{1^{n-1}} \boxtimes V_1$

n: 1



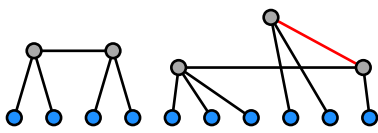
ID: 516  $V_{1^n}$

n: 1



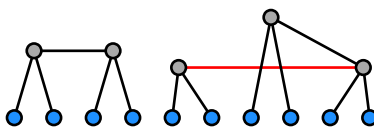
ID: 518  $V_{1^n}$

n: 1



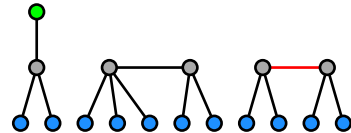
ID: 517  $V_{1^n}$

n: 1



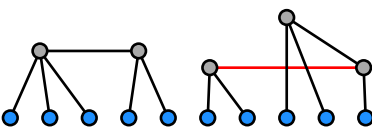
ID: 509  $V_{1^{n-1}} \boxtimes V_1$

n: 1



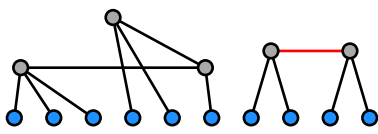
ID: 514  $V_{1^n}$

n: 1



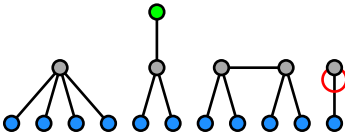
ID: 510  $V_{1^n}$

n: 1



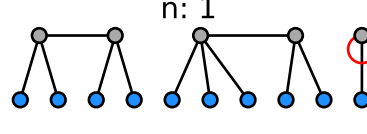
ID: 542  $V_{1^{n-1}} \boxtimes V_1$

n: 1



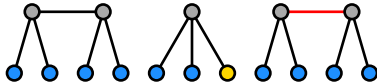
ID: 543  $V_{1^n}$

n: 1



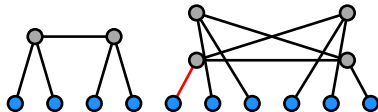
--- B,Birr cases with weight 11 relations      relation groups: 6 ---

ID: 508     $V_1^n$   
n: 1



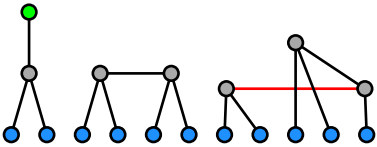
----- edges: 14-n      graphs: 73      -----  
 --- A2 case with weight 13 relations      relation groups: 6 ---

ID: 573     $V_1^n$   
 n: 1

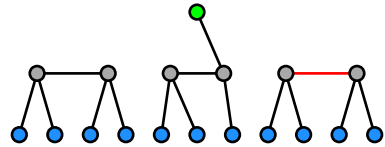


--- B,Birr cases without weight 11 relations      graphs: 43 ---

ID: 606     $V_1^{n-1} \boxtimes V_1$   
n: 1



ID: 605     $V_1^{n-1} \boxtimes V_1$   
n: 1



ID: 607     $V_1^n$   
n: 1

