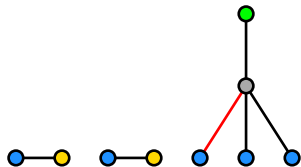
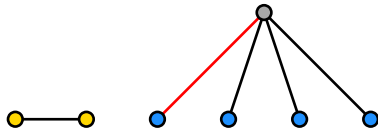


----- edges: 11-n graphs: 64 -----
 --- A3 case graphs: 45 ---

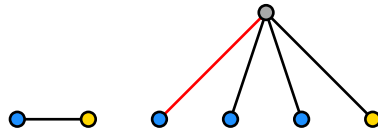
ID: 139 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



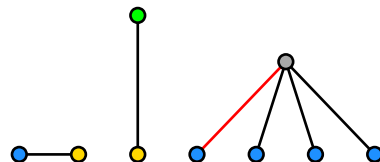
ID: 140 V_{1^n}
 n: 7 4 1



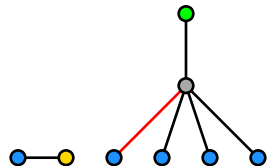
ID: 141 V_{1^n}
 n: 7 4 1



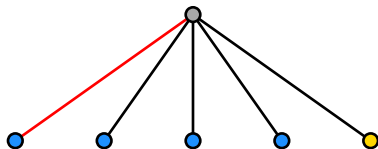
ID: 142 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



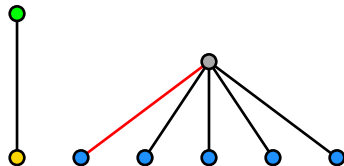
ID: 143 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



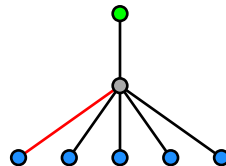
ID: 144 V_{1^n}
 n: 7 4 1



ID: 145 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1

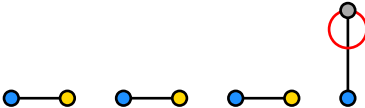


ID: 146 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



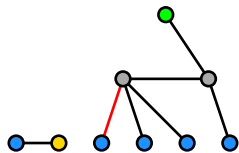
--- B,Birr cases without weight 11 relations graphs: 19 ---

ID: 197 V_1^n
n: 7 4 1

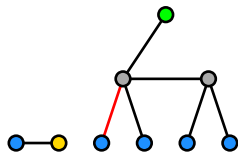


----- edges: 12-n graphs: 165 -----
 --- A3 case graphs: 66 ---

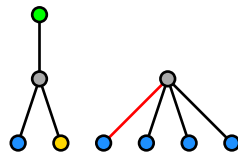
ID: 215 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



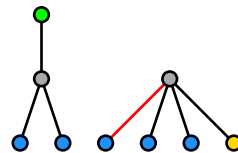
ID: 216 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



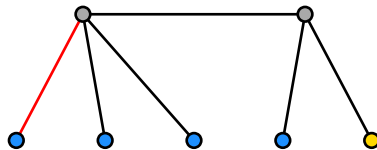
ID: 217 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



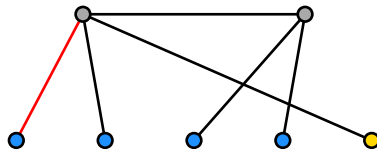
ID: 218 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



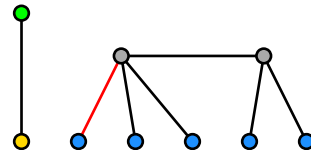
ID: 219 V_1^n
 n: 7 4 1



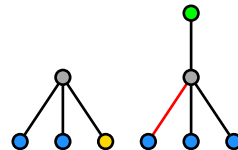
ID: 220 V_1^n
 n: 7 4 1



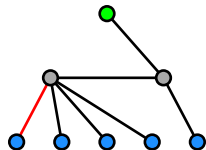
ID: 221 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



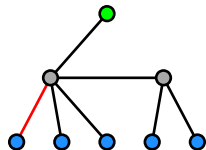
ID: 222 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



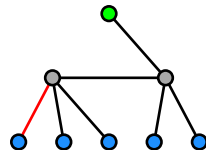
ID: 223 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



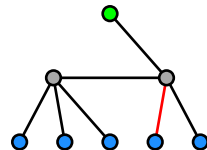
ID: 224 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1



ID: 225 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1

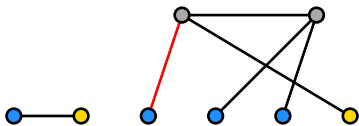


ID: 226 $V_1^{n-1} \boxtimes V_1$
 n: 7 4 1

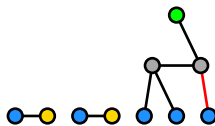


--- A2 case with weight 13 relations relation groups: 4 ---

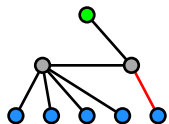
ID: 274 V_1^n
n: 7 4 1



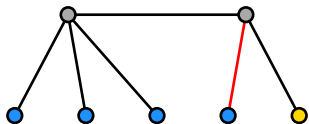
ID: 273 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



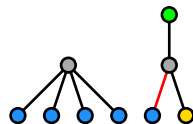
ID: 278 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



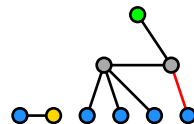
ID: 277 V_1^n
n: 7 4 1



ID: 276 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1

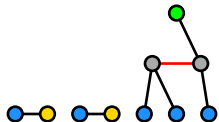


ID: 275 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1

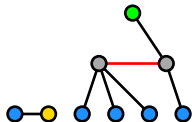


--- B,Birr cases without weight 11 relations graphs: 60 ---

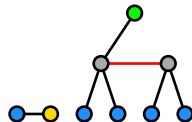
ID: 291 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



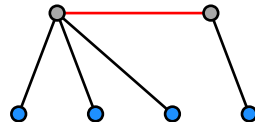
ID: 293 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



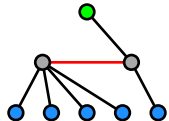
ID: 294 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



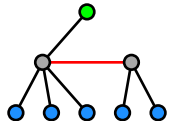
ID: 295 V_1^n
n: 7 4 1



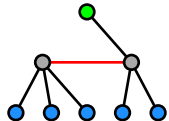
ID: 298 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



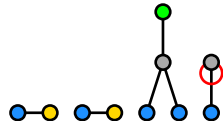
ID: 299 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



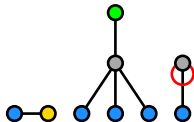
ID: 300 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



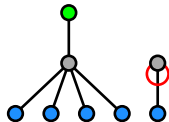
ID: 349 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



ID: 350 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1

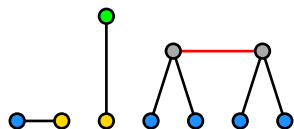


ID: 355 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1

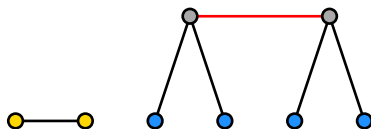


--- B,Birr cases with weight 11 relations relation groups: 5 ---

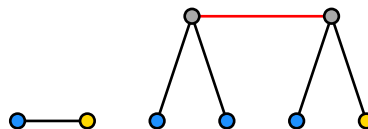
ID: 289 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



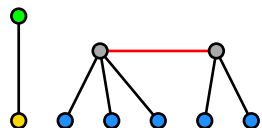
ID: 288 V_{1^n}
n: 7 4 1



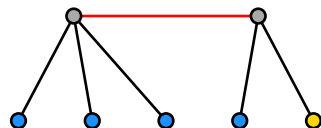
ID: 292 V_{1^n}
n: 7 4 1



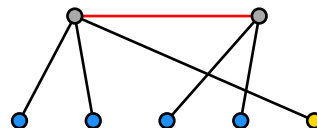
ID: 290 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



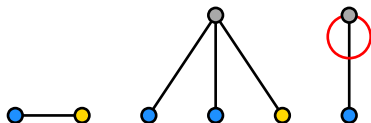
ID: 296 V_{1^n}
n: 7 4 1



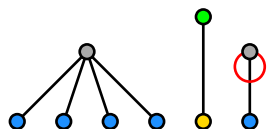
ID: 297 V_{1^n}
n: 7 4 1



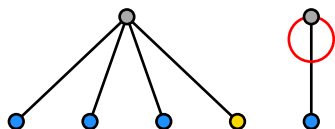
ID: 351 V_{1^n}
n: 7 4 1



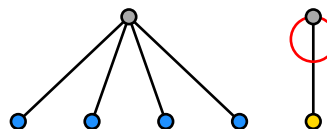
ID: 354 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



ID: 352 V_{1^n}
n: 7 4 1

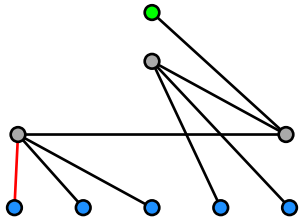


ID: 353 V_{1^n}
n: 7 4 1

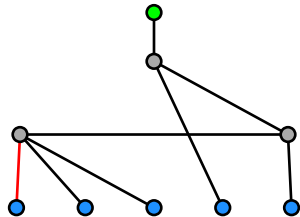


----- edges: 13-n graphs: 176
 --- A3 case graphs: 34 ---

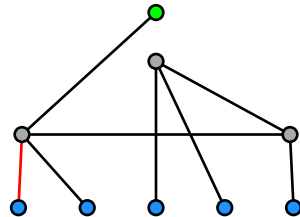
ID: 383 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



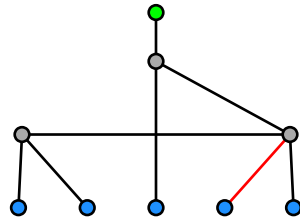
ID: 384 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



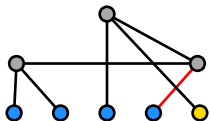
ID: 385 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



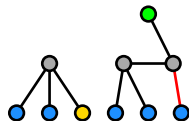
ID: 386 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



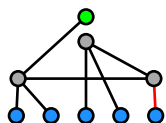
ID: 425 V_1^n
n: 7 4 1



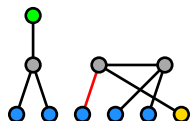
ID: 426 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



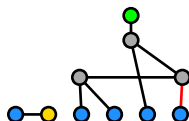
ID: 429 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



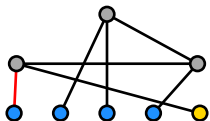
ID: 422 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



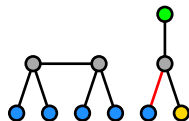
ID: 420 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



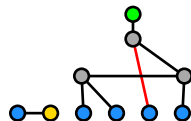
ID: 424 V_1^n
n: 7 4 1



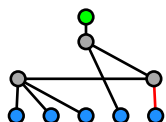
ID: 421 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



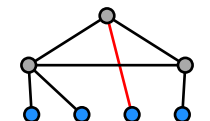
ID: 419 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



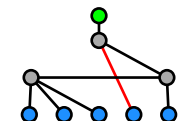
ID: 428 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



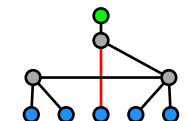
ID: 423 V_1^n
n: 7 4 1



ID: 427 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1

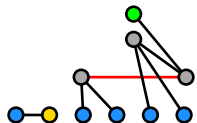


ID: 430 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1

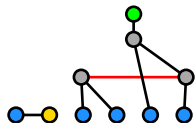


--- B,Birr cases without weight 11 relations graphs: 74 ---

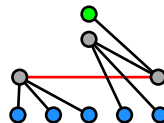
ID: 465 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



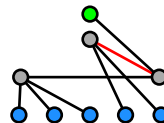
ID: 466 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



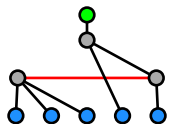
ID: 469 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



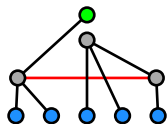
ID: 472 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



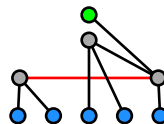
ID: 473 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



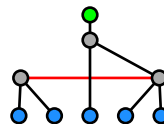
ID: 470 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



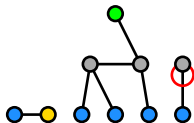
ID: 471 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



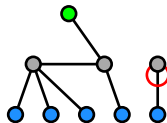
ID: 474 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



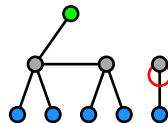
ID: 528 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



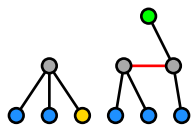
ID: 533 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



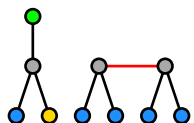
ID: 534 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1



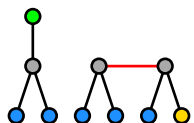
ID: 463 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



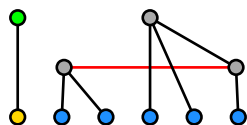
ID: 461 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



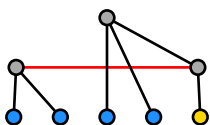
ID: 464 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



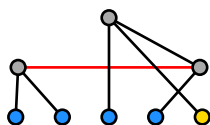
ID: 462 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



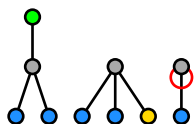
ID: 467 V_{1^n}
n: 7 4 1



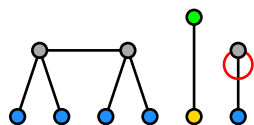
ID: 468 V_{1^n}
n: 7 4 1



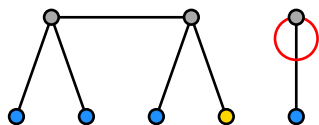
ID: 532 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



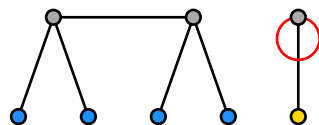
ID: 531 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



ID: 529 V_{1^n}
n: 7 4 1

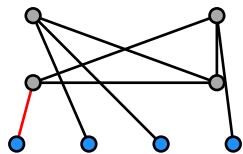


ID: 530 V_{1^n}
n: 7 4 1

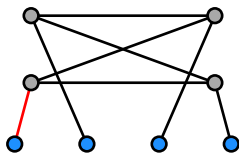


----- edges: 14-n graphs: 73 -----
 --- A2 case with weight 13 relations relation groups: 6 ---

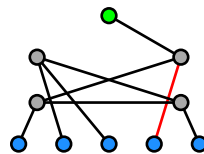
ID: 561 V_{1^n}
 n: 7 4 1



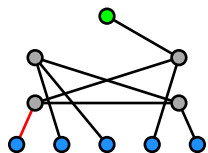
ID: 562 V_{1^n}
 n: 7 4 1



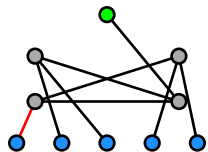
ID: 565 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



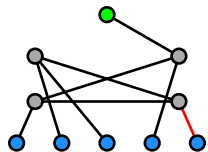
ID: 564 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1



ID: 563 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1

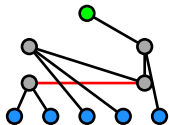


ID: 566 $V_{1^{n-1}} \boxtimes V_1$
 n: 7 4 1

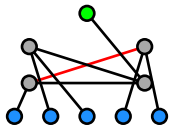


--- B,Birr cases without weight 11 relations graphs: 43 ---

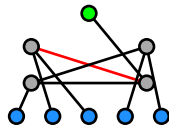
ID: 589 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



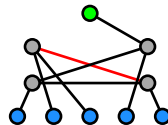
ID: 590 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



ID: 591 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



ID: 592 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1



ID: 614 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1

