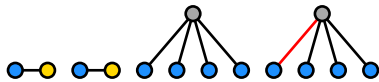
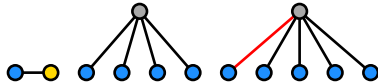


---- excess: 4 (g,n): (1, 13), (3, 10), (5, 7), (7, 4), (9, 1) graphs: 490 ----
 ----- edges: 10-n graphs: 10 -----
 --- A3 case graphs: 10 ---

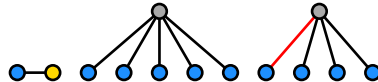
ID: 133 V_1^n
 n: 1 \mapsto ID 167



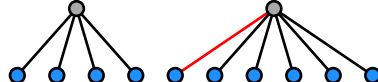
ID: 134 V_1^n
 n: 1 \mapsto ID 170



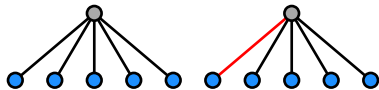
ID: 135 V_1^n
 n: 1 \mapsto ID 171



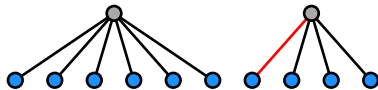
ID: 136 V_1^n
 n: 1 \mapsto ID 178



ID: 137 V_1^n
 n: 1 \mapsto ID 181

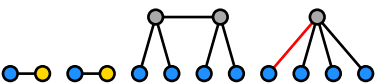


ID: 138 V_1^n
 n: 1 \mapsto ID 183

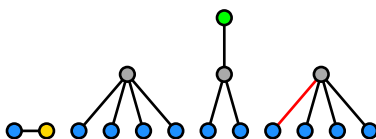


----- edges: 11-n graphs: 64 -----
 --- A3 case graphs: 45 ---

ID: 167 V_1^n
 n: 1 \leftrightarrow ID 133



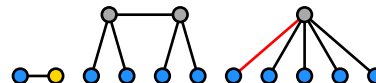
ID: 168 $V_1^{n-1} \boxtimes V_1$
 n: 1 \mapsto ID 255



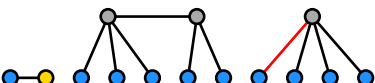
ID: 169 V_1^n
 n: 1 \mapsto ID 256



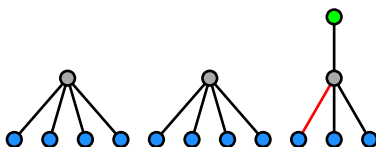
ID: 170 V_1^n
 n: 1 \leftrightarrow ID 134



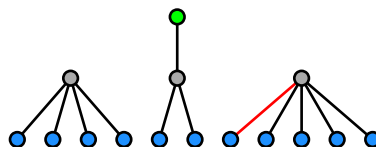
ID: 171 V_1^n
 n: 1 \leftrightarrow ID 135



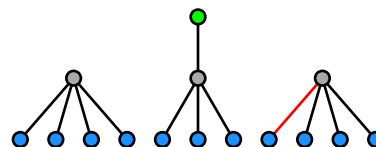
ID: 172 $V_1^{n-1} \boxtimes V_1$
 n: 1 \mapsto ID 257



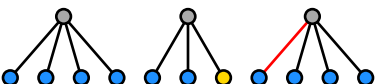
ID: 173 $V_1^{n-1} \boxtimes V_1$
 n: 1 \mapsto ID 261



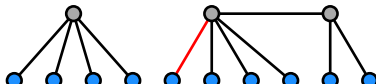
ID: 174 $V_1^{n-1} \boxtimes V_1$
 n: 1 \mapsto ID 262



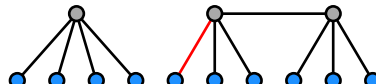
ID: 175 V_1^n
 n: 1 \mapsto ID 263



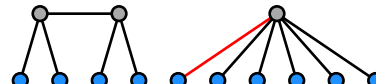
ID: 176 V_1^n
 n: 1 \mapsto ID 264



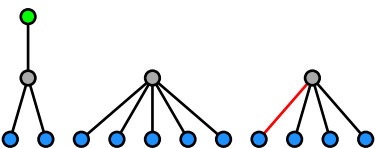
ID: 177 V_1^n
 n: 1 \mapsto ID 265



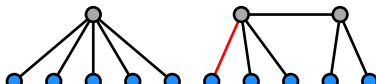
ID: 178 V_1^n
 n: 1 \leftrightarrow ID 136



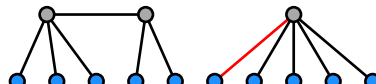
ID: 179 $V_1^{n-1} \boxtimes V_1$
 n: 1 \mapsto ID 266



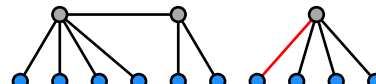
ID: 180 V_1^n
 n: 1 \mapsto ID 267



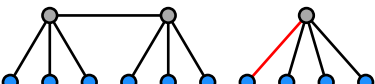
ID: 181 V_1^n
 n: 1 \leftrightarrow ID 137



ID: 182 V_1^n
 n: 1 \mapsto ID 268

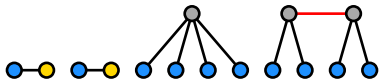


ID: 183 V_1^n
 n: 1 \leftrightarrow ID 138



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

ID: 190 V_1^n
n: 1 \mapsto ID 327



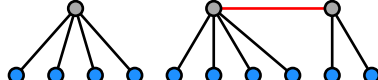
ID: 193 V_1^n
n: 1 \mapsto ID 335



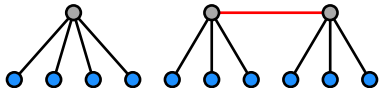
ID: 191 V_1^n
n: 1 \mapsto ID 329



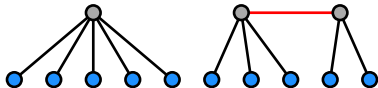
ID: 195 V_1^n
n: 1 \mapsto ID 341



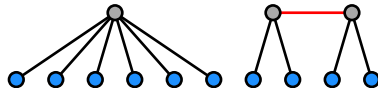
ID: 196 V_1^n
n: 1 \mapsto ID 342



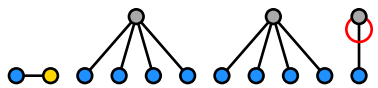
ID: 194 V_1^n
n: 1 \mapsto ID 337



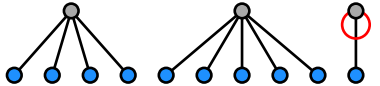
ID: 192 V_1^n
n: 1 \mapsto ID 333



ID: 201 V_1^n
n: 1 \mapsto ID 364

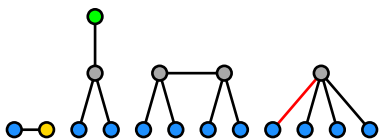


ID: 202 V_1^n
n: 1 \mapsto ID 366

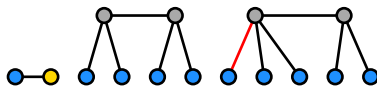


----- edges: 12-n graphs: 165 -----
 --- A3 case graphs: 66 ---

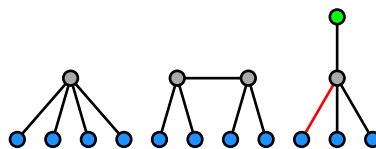
ID: 255 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \leftrightarrow ID 168



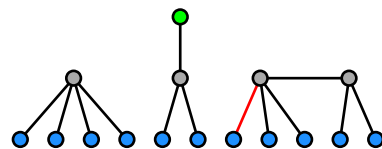
ID: 256 V_{1^n}
 n: 1 \leftrightarrow ID 169



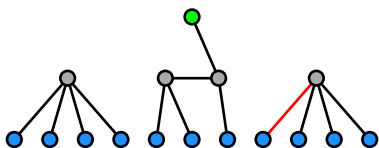
ID: 257 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \leftrightarrow ID 172



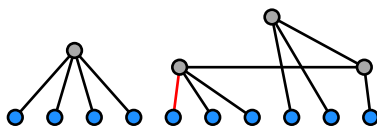
ID: 258 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \mapsto ID 399



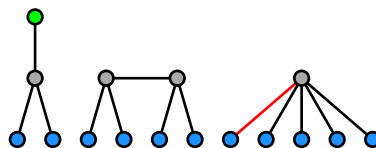
ID: 259 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \mapsto ID 400



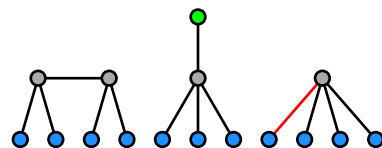
ID: 260 V_{1^n}
 n: 1 \mapsto ID 401



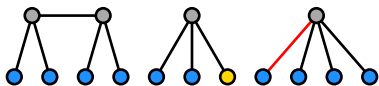
ID: 261 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \leftrightarrow ID 173



ID: 262 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \leftrightarrow ID 174



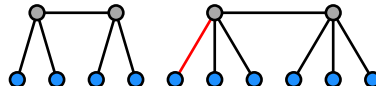
ID: 263 V_{1^n}
 n: 1 \leftrightarrow ID 175



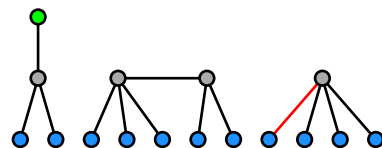
ID: 264 V_{1^n}
 n: 1 \leftrightarrow ID 176



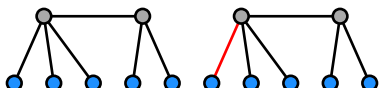
ID: 265 V_{1^n}
 n: 1 \leftrightarrow ID 177



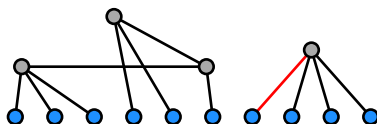
ID: 266 $V_{1^{n-1}} \boxtimes V_1$
 n: 1 \leftrightarrow ID 179



ID: 267 V_{1^n}
 n: 1 \leftrightarrow ID 180

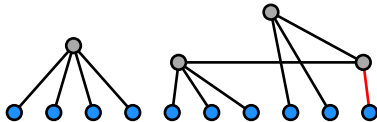


ID: 268 V_{1^n}
 n: 1 \leftrightarrow ID 182

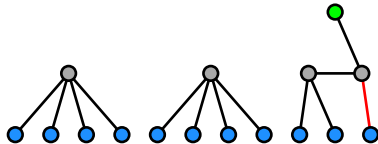


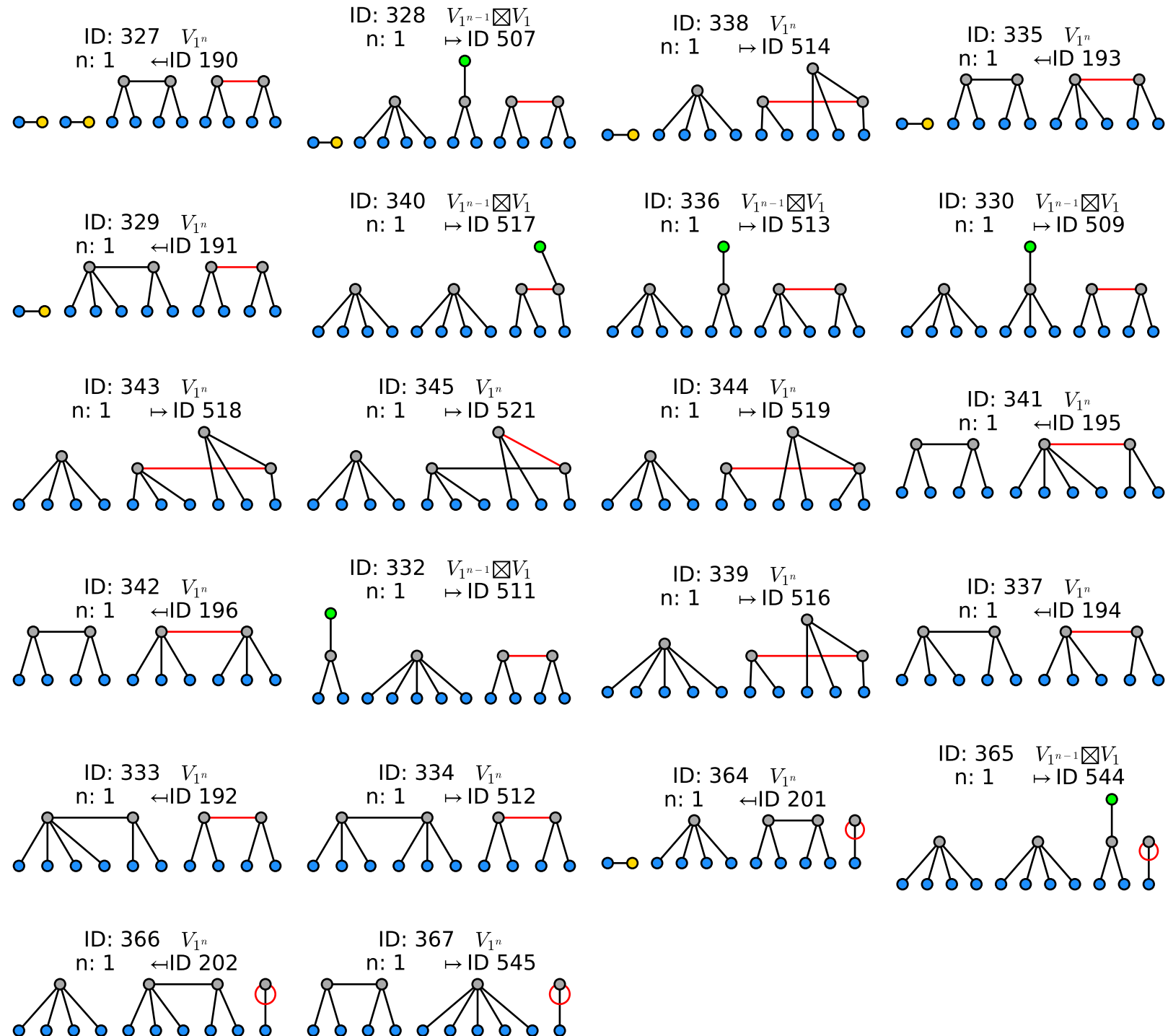
--- A2 case with weight 13 relations relation groups: 4 ---

ID: 287 V_1^n
 n: 1 \mapsto ID 446



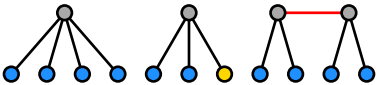
ID: 286 $V_1^{n-1} \boxtimes V_1$
 n: 1 \mapsto ID 444 RED





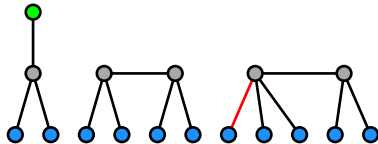
--- B,Birr cases with weight 11 relations relation groups: 5 ---

ID: 331 V_1^n
n: 1 \mapsto ID 510

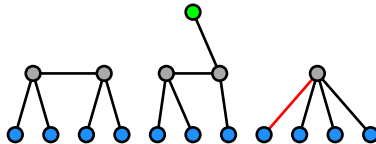


----- edges: 13-n graphs: 178
 --- A3 case graphs: 34 ---

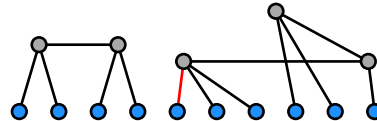
ID: 399 $V_1^{n-1} \boxtimes V_1$
 n: 1 \leftrightarrow ID 258



ID: 400 $V_1^{n-1} \boxtimes V_1$
 n: 1 \leftrightarrow ID 259

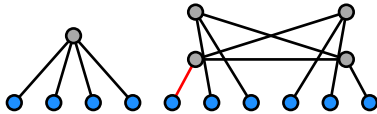


ID: 401 V_1^n
 n: 1 \leftrightarrow ID 260

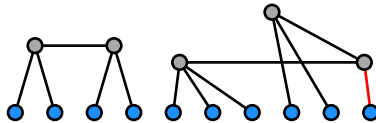


--- A2 case with weight 13 relations relation groups: 8 ---

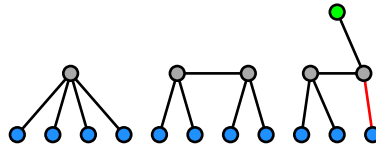
ID: 445 V_1^n
 n: 1 \mapsto ID 575 RED



ID: 446 V_1^n
 n: 1 \leftarrow ID 287

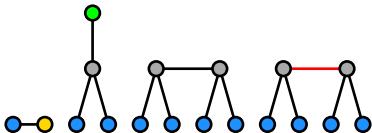


ID: 444 $V_1^{n-1} \boxtimes V_1$
 n: 1 \leftarrow ID 286 RED

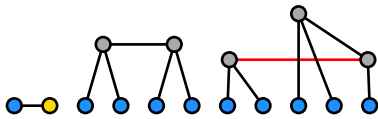


--- B,Birr cases without weight 11 relations graphs: 76 ---

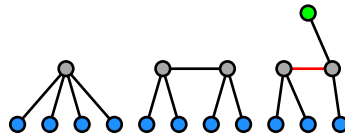
ID: 507 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \leftarrow ID 328



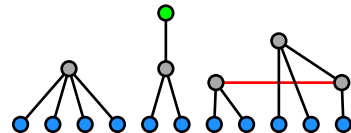
ID: 514 V_{1^n}
n: 1 \leftarrow ID 338



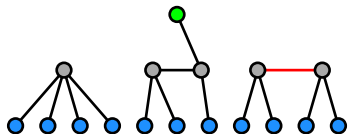
ID: 517 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \leftarrow ID 340



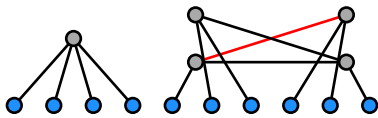
ID: 515 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \rightarrow ID 608



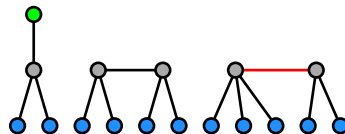
ID: 508 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \rightarrow ID 607



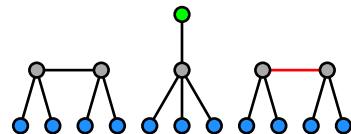
ID: 521 V_{1^n}
n: 1 \leftarrow ID 345



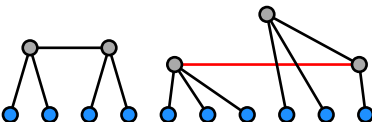
ID: 513 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \leftarrow ID 336



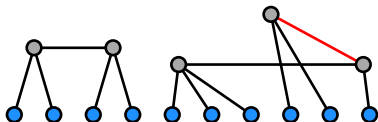
ID: 509 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \leftarrow ID 330



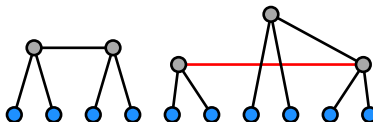
ID: 518 V_{1^n}
n: 1 \leftarrow ID 343



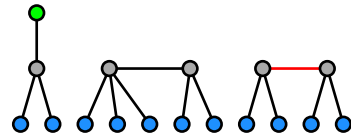
ID: 520 V_{1^n}
n: 1 \rightarrow ID 609



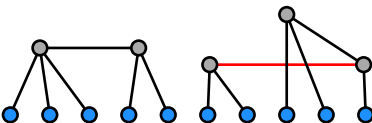
ID: 519 V_{1^n}
n: 1 \leftarrow ID 344



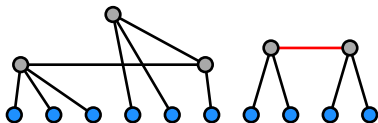
ID: 511 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \leftarrow ID 332



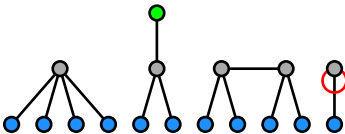
ID: 516 V_{1^n}
n: 1 \leftarrow ID 339



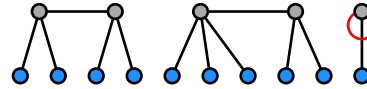
ID: 512 V_{1^n}
n: 1 \leftarrow ID 334



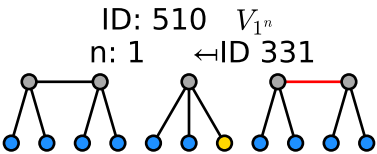
ID: 544 $V_{1^{n-1}} \boxtimes V_1$
n: 1 \leftarrow ID 365



ID: 545 V_{1^n}
n: 1 \leftarrow ID 367

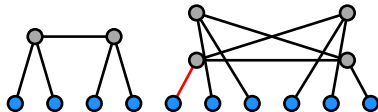


--- B,Birr cases with weight 11 relations relation groups: 6 ---



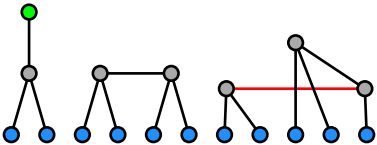
----- edges: 14-n graphs: 73 -----
--- A2 case with weight 13 relations relation groups: 6 ---

ID: 575 V_1^n
n: 1 \leftarrow ID 445 RED

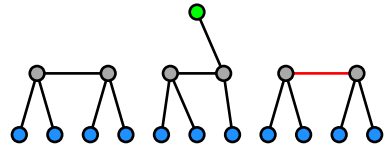


--- B,Birr cases without weight 11 relations graphs: 43 ---

ID: 608 $V_1^{n-1} \boxtimes V_1$
 n: 1 \leftarrow ID 515



ID: 607 $V_1^{n-1} \boxtimes V_1$
 n: 1 \leftarrow ID 508



ID: 609 V_1^n
 n: 1 \leftarrow ID 520

