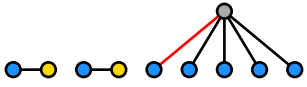
---- excess: 4 (g,n): (1, 13), (3, 10), (5, 7), (7, 4), (9, 1) graphs: 490 eliminated+redundant: 476 ----

--------- edges: 10-n graphs: 10 ---------

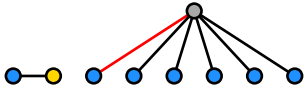
--- A3 case graphs: 10 ---

ID: 129 V_{1^n}
n: 4 1 ↦ ID 152

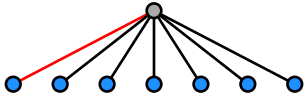
ID: 130 V_{1^n}
n: 4 1 ↦ ID 148



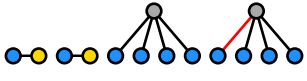
ID: 131 V_{1^n}
n: 4 1 ↦ ID 153



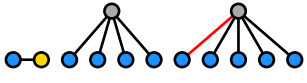
ID: 132 V_{1^n}
n: 4 1 ↦ ID 166



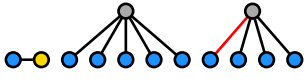
ID: 133 V_{1^n}
n: 1 ↦ ID 167



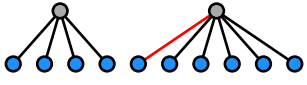
ID: 134 V_{1^n}
n: 1 ↦ ID 170



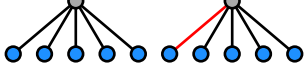
ID: 135 V_{1^n}
n: 1 ↦ ID 171



ID: 136 V_{1^n}
n: 1 ↦ ID 178



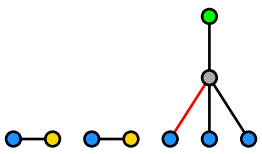
ID: 137 V_{1^n}
n: 1 ↦ ID 181



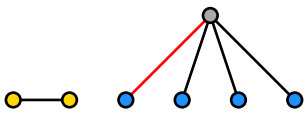
ID: 138 V_{1^n}
n: 1 ↦ ID 183

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

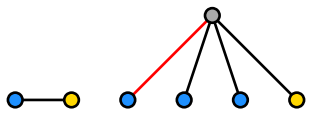
ID: 139 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 291



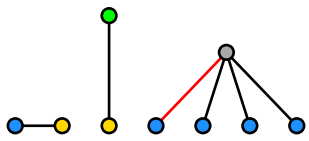
ID: 140 V_{1^n}
n: 7 4 1 ↦ ID 219



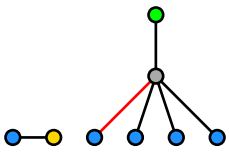
ID: 141 V_{1^n}
n: 7 4 1 ↦ ID 292



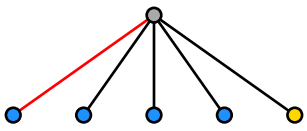
ID: 142 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 215



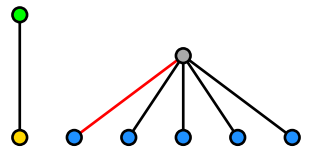
ID: 143 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 224



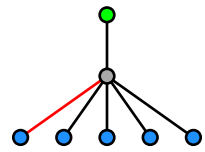
ID: 144 V_{1^n}
n: 7 4 1 ↦ ID 220



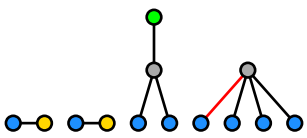
ID: 145 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 221



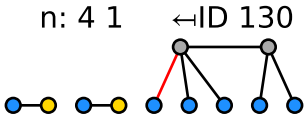
ID: 146 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 225



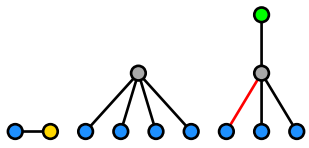
ID: 147 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 243



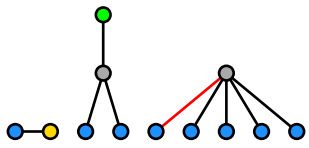
ID: 148 V_{1^n}
n: 4 1 ↤ ID 130



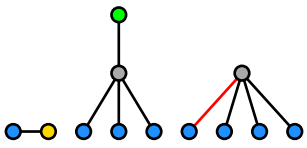
ID: 149 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 232



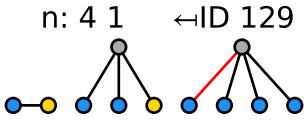
ID: 150 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 233



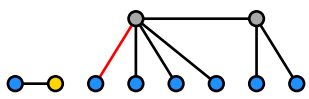
ID: 151 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 234



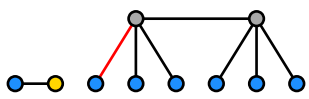
ID: 152 V_{1^n}
n: 4 1 ↤ ID 129



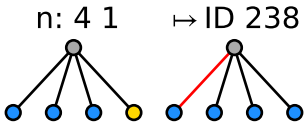
ID: 153 V_{1^n}
n: 4 1 ↤ ID 131



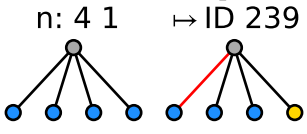
ID: 154 V_{1^n}
n: 4 1 ↦ ID 235



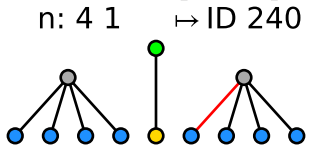
ID: 155 V_{1^n}
n: 4 1 ↦ ID 238



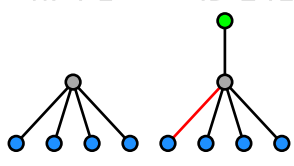
ID: 156 V_{1^n}
n: 4 1 ↦ ID 239



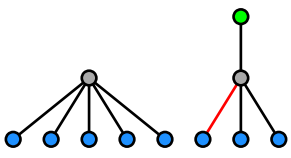
ID: 157 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 240



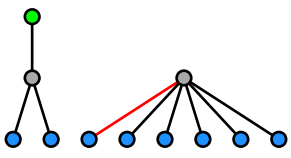
ID: 158 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 241



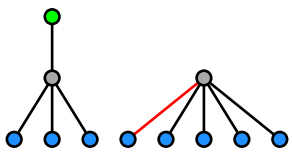
ID: 159 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 242



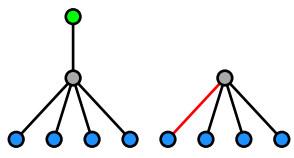
ID: 160 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 245



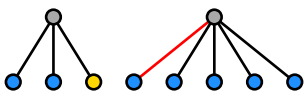
ID: 161 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 247



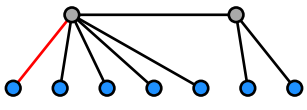
ID: 162 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 249



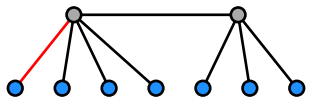
ID: 163 V_{1^n}
n: 4 1 ↦ ID 250



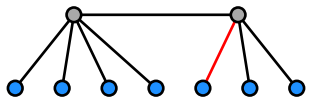
ID: 164 V_{1^n}
n: 4 1 ↦ ID 253



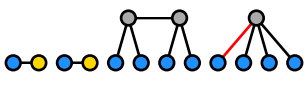
ID: 165 V_{1^n}
n: 4 1 ↦ ID 251



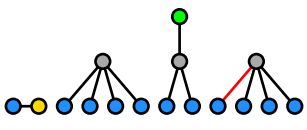
ID: 166 V_{1^n}
n: 4 1 ↤ ID 132



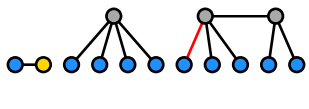
ID: 167 V_{1^n}
n: 1 ↤ ID 133



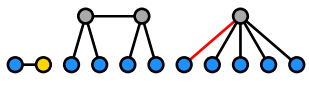
ID: 168 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ ID 255



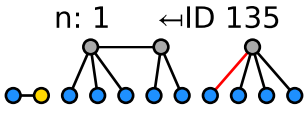
ID: 169 V_{1^n}
n: 1 ↦ ID 256



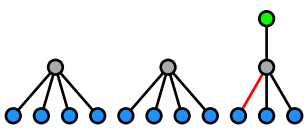
ID: 170 V_{1^n}
n: 1 ↤ ID 134



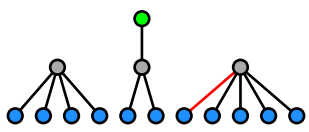
ID: 171 V_{1^n}
n: 1 ↤ ID 135



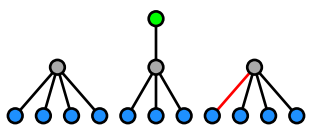
ID: 172 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ ID 257



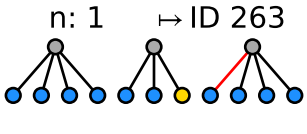
ID: 173 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ ID 261



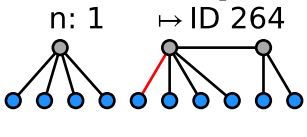
ID: 174 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ ID 262



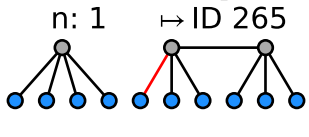
ID: 175 V_{1^n}
n: 1 ↦ ID 263



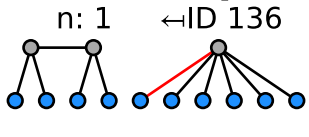
ID: 176 V_{1^n}
n: 1 ↦ ID 264



ID: 177 V_{1^n}
n: 1 ↦ ID 265



ID: 178 V_{1^n}
n: 1 ↤ ID 136



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

ID: 180 V_{1^n}
n: 1 ↦ ID 267

ID: 181 V_{1^n}
n: 1 ↤ ID 137

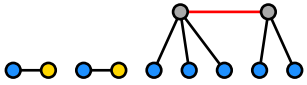
ID: 182 V_{1^n}
n: 1 ↦ ID 268

ID: 183 V_{1^n}
n: 1 ↤ ID 138

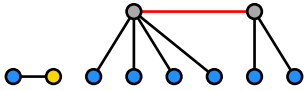
--- B,Birr cases without weight 11 relations graphs: 19 ---

ID: 184 V_{1^n}
n: 4 1 ↦ ID 303

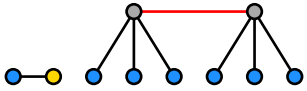
ID: 185 V_{1^n}
n: 4 1 ↦ ID 310



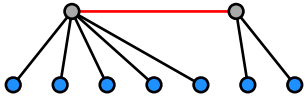
ID: 186 V_{1^n}
n: 4 1 ↦ ID 316



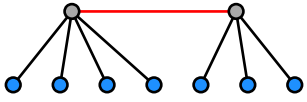
ID: 187 V_{1^n}
n: 4 1 ↦ ID 317



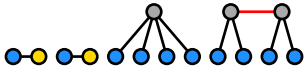
ID: 188 V_{1^n}
n: 4 1 ↦ ID 323



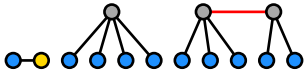
ID: 189 V_{1^n}
n: 4 1 ↦ ID 322



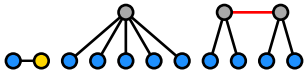
ID: 190 V_{1^n}
n: 1 ↦ ID 327



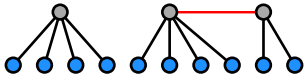
ID: 193 V_{1^n}
n: 1 ↦ ID 335



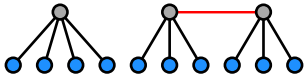
ID: 191 V_{1^n}
n: 1 ↦ ID 329



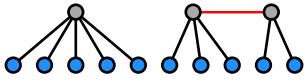
ID: 195 V_{1^n}
n: 1 ↦ ID 341



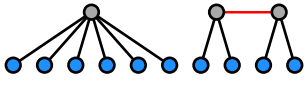
ID: 196 V_{1^n}
n: 1 ↦ ID 342



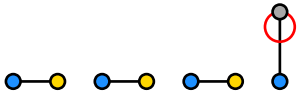
ID: 194 V_{1^n}
n: 1 ↦ ID 337



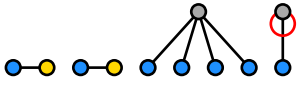
ID: 192 V_{1^n}
n: 1 ↦ ID 333



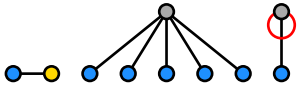
ID: 197 V_{1^n}
n: 7 4 1 ↦ ID 351



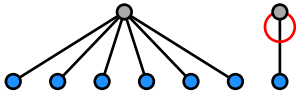
ID: 198 V_{1^n}
n: 4 1 ↦ ID 356



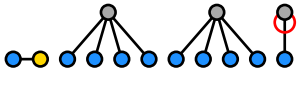
ID: 199 V_{1^n}
n: 4 1 ↦ ID 358



ID: 200 V_{1^n}
n: 4 1 ↦ ID 363



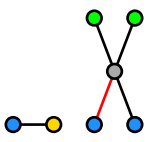
ID: 201 V_{1^n}
n: 1 ↦ ID 364



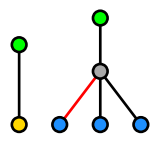
ID: 202 V_{1^n}
n: 1 ↦ ID 366

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

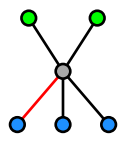
ID: 203 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↦ ID 448



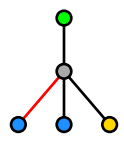
ID: 204 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↦ ID 372



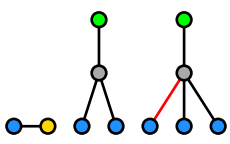
ID: 205 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↦ ID 373



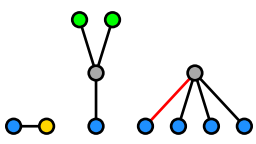
ID: 206 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 ↦ ID 410



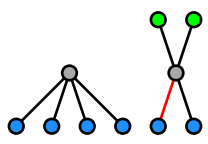
ID: 207 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 456



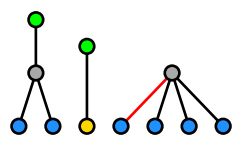
ID: 208 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↦ ID 452



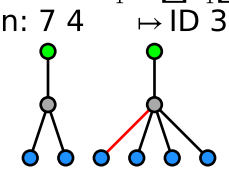
ID: 209 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↦ ID 374



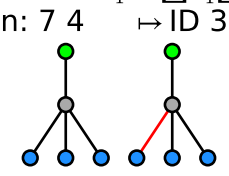
ID: 210 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 453



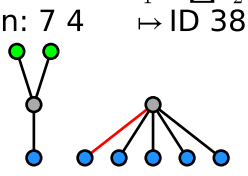
ID: 211 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 378



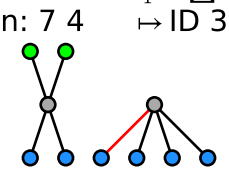
ID: 212 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 379



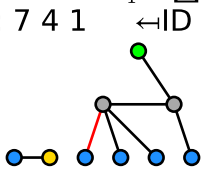
ID: 213 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↦ ID 380



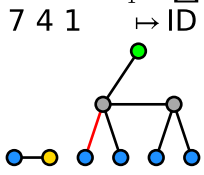
ID: 214 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↦ ID 381



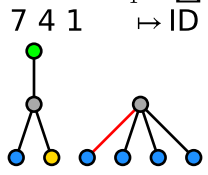
ID: 215 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 142



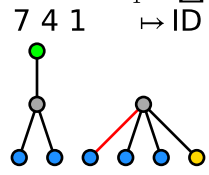
ID: 216 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 465



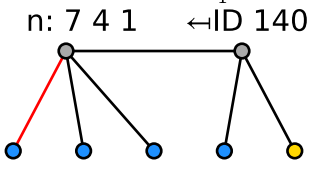
ID: 217 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 384



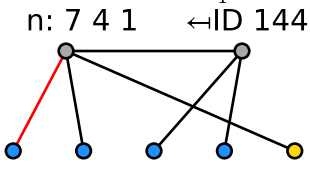
ID: 218 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 422



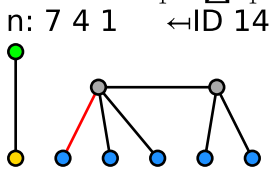
ID: 219 V_{1^n}
n: 7 4 1 ↤ ID 140



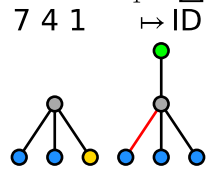
ID: 220 V_{1^n}
n: 7 4 1 ↤ ID 144



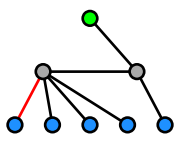
ID: 221 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 145



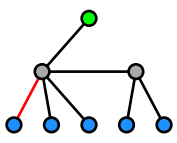
ID: 222 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 429



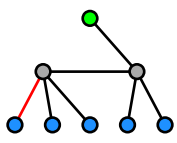
ID: 223 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 386



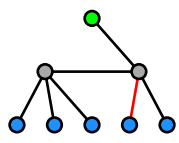
ID: 224 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 143



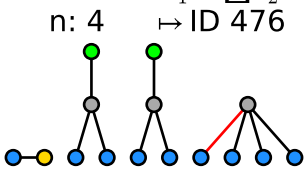
ID: 225 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 146



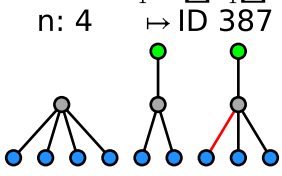
ID: 226 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 385



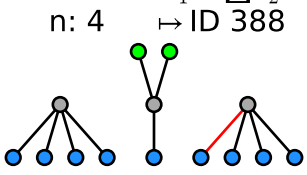
ID: 227 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↦ ID 476



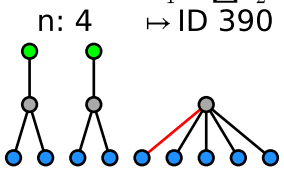
ID: 228 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 ↦ ID 387



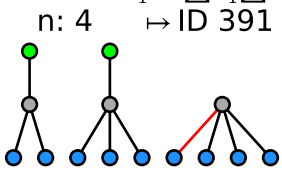
ID: 229 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↦ ID 388



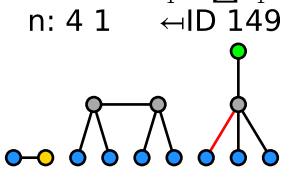
ID: 230 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↦ ID 390



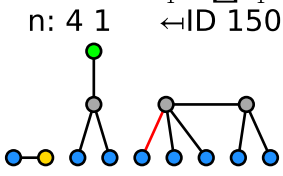
ID: 231 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 ↦ ID 391



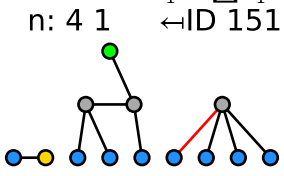
ID: 232 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 149



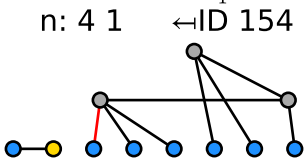
ID: 233 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 150



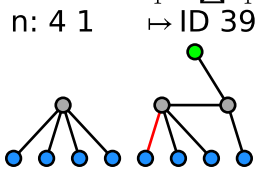
ID: 234 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 151



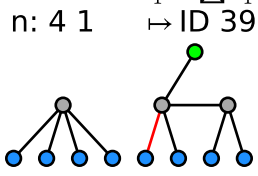
ID: 235 V_{1^n}
n: 4 1 ↤ ID 154



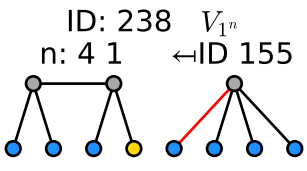
ID: 236 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 392



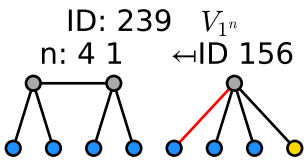
ID: 237 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 393



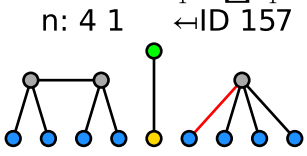
ID: 238 V_{1^n}
n: 4 1 ↤ ID 155



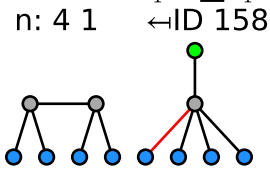
ID: 239 V_{1^n}
n: 4 1 ↤ ID 156



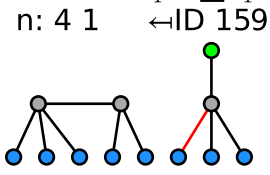
ID: 240 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 157



ID: 241 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 158



ID: 242 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 159



ID: 243 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 147

ID: 244 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 394

ID: 245 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 160

ID: 246 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 395

ID: 247 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 161

ID: 248 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 396

ID: 249 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 162

ID: 250 V_{1^n}
n: 4 1 ↤ ID 163

ID: 251 V_{1^n}
n: 4 1 ↤ ID 165

ID: 252 V_{1^n}
n: 4 1 ↦ ID 398

ID: 253 V_{1^n}
n: 4 1 ↤ ID 164

ID: 254 V_{1^n}
n: 4 1 ↦ ID 397

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

ID: 256 V_{1^n}
n: 1 ↤ ID 169

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

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

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

ID: 260 V_{1^n}
n: 1 ↦ ID 401

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

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

ID: 263 V_{1^n}
n: 1 ↤ ID 175

ID: 264 V_{1^n}
n: 1 ↤ ID 176

ID: 265 V_{1^n}
n: 1 ↤ ID 177

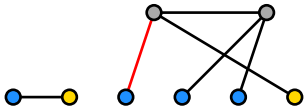
ID: 266 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↤ ID 179

ID: 267 V_{1^n}
n: 1 ↤ ID 180

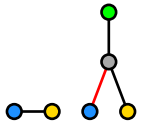
ID: 268 V_{1^n}
n: 1 ↤ ID 182

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

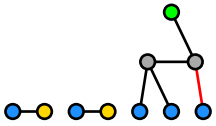
ID: 274 V_{1^n}
n: 7 4 1 ↦ ID 425



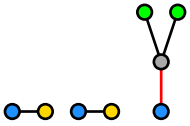
ID: 270 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 ↦ ID 525



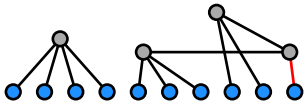
ID: 273 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



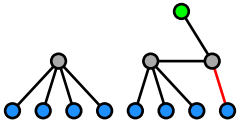
ID: 269 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 Redundant



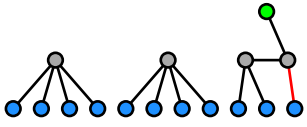
ID: 287 V_{1^n}
n: 1 ↦ ID 446



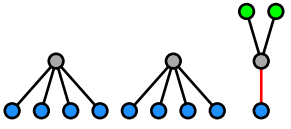
ID: 283 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ ID 438



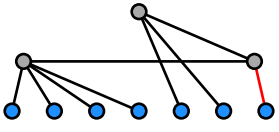
ID: 286 $V_{1^{n-1}} \boxtimes V_1$
n: 1 Redundant



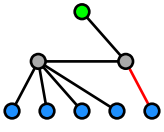
ID: 279 $V_{1^{n-2}} \boxtimes V_2$
n: 4 Redundant



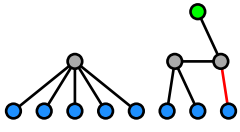
ID: 285 V_{1^n}
n: 4 1 ↦ ID 441



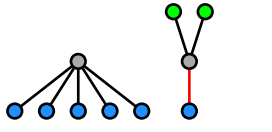
ID: 278 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 430



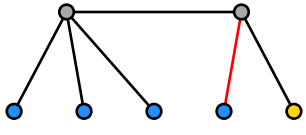
ID: 284 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant



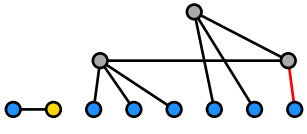
ID: 272 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 Redundant



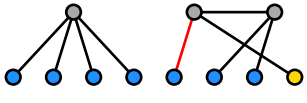
ID: 277 V_{1^n}
n: 7 4 1 ↦ ID 424



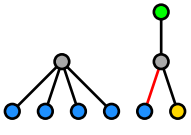
ID: 281 V_{1^n}
n: 4 1 Redundant



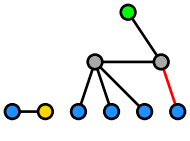
ID: 282 V_{1^n}
n: 4 1 ↦ ID 437



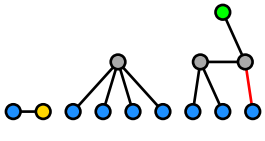
ID: 276 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 421



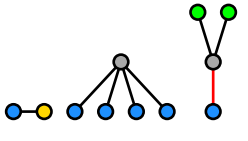
ID: 275 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



ID: 280 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant

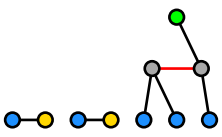


ID: 271 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 Redundant

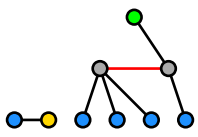


--- B,Birr cases without weight 11 relations graphs: 60 ---

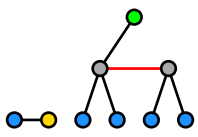
ID: 291 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 139



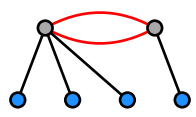
ID: 293 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 469



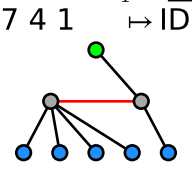
ID: 294 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 471



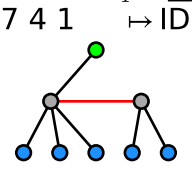
ID: 295 V_{1^n}
n: 7 4 1 ↦ID 423



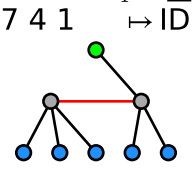
ID: 298 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 472



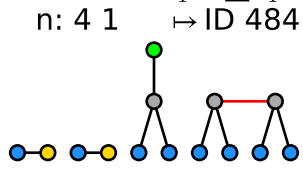
ID: 299 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 474



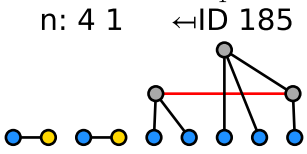
ID: 300 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 473



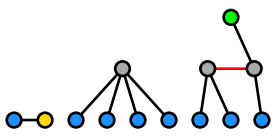
ID: 301 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 484



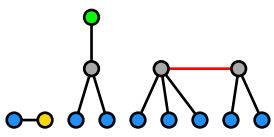
ID: 310 V_{1^n}
n: 4 1 ↤ID 185



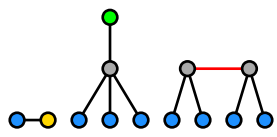
ID: 311 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 491



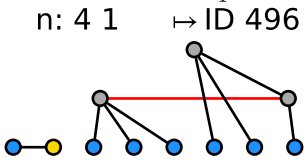
ID: 307 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 488



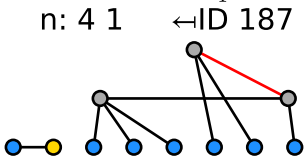
ID: 302 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 481



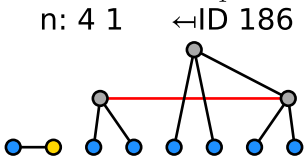
ID: 315 V_{1^n}
n: 4 1 ↦ID 496



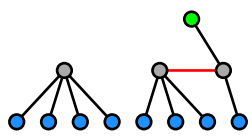
ID: 317 V_{1^n}
n: 4 1 ↤ID 187



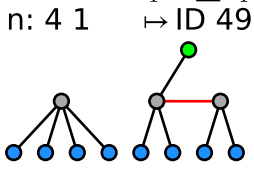
ID: 316 V_{1^n}
n: 4 1 ↤ID 186



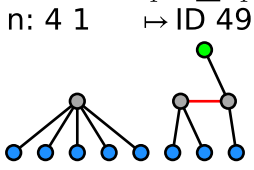
ID: 319 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 498



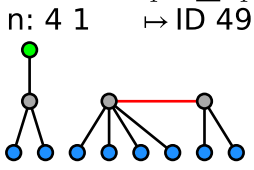
ID: 320 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 499



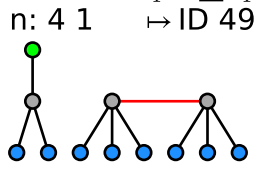
ID: 312 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 492



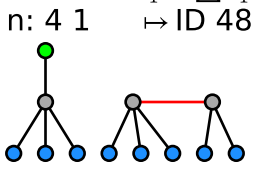
ID: 313 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 494



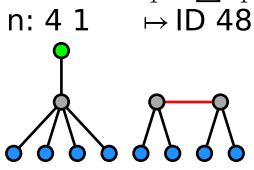
ID: 314 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 493



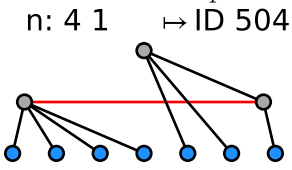
ID: 308 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 487



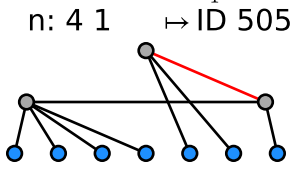
ID: 306 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 486



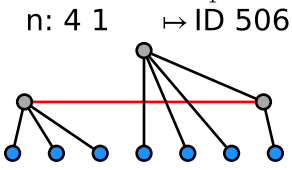
ID: 321 V_{1^n}
n: 4 1 ↦ID 504



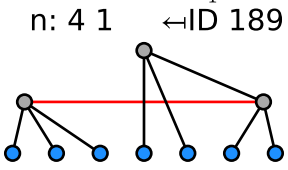
ID: 324 V_{1^n}
n: 4 1 ↦ID 505



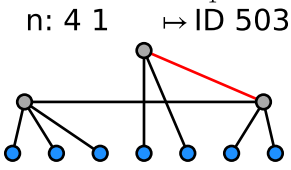
ID: 325 V_{1^n}
n: 4 1 ↦ID 506



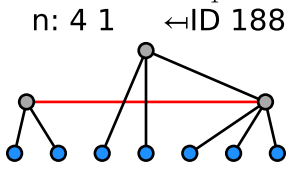
ID: 322 V_{1^n}
n: 4 1 ↤ID 189



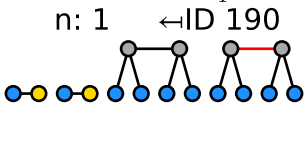
ID: 326 V_{1^n}
n: 4 1 ↦ID 503



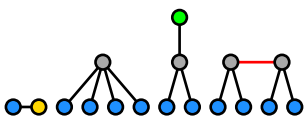
ID: 323 V_{1^n}
n: 4 1 ↤ID 188



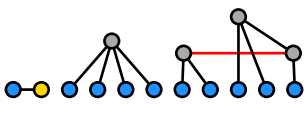
ID: 327 V_{1^n}
n: 1 ↤ID 190



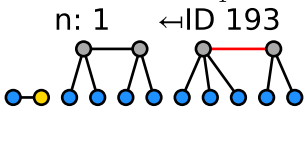
ID: 328 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ID 507



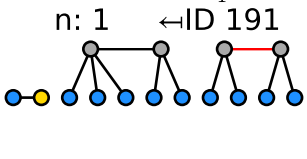
ID: 338 V_{1^n}
n: 1 ↦ID 514



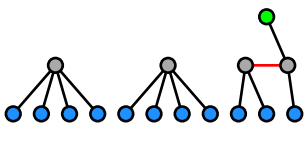
ID: 335 V_{1^n}
n: 1 ↤ID 193



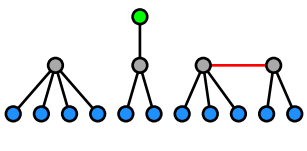
ID: 329 V_{1^n}
n: 1 ↤ID 191



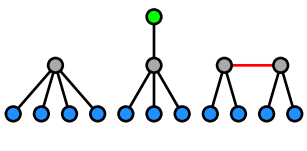
ID: 340 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ID 517



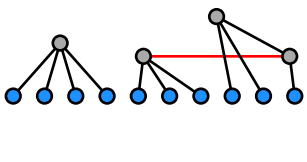
ID: 336 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ID 513



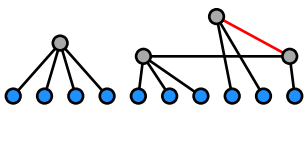
ID: 330 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ID 509



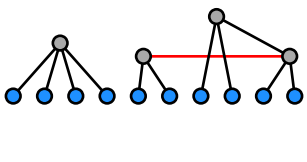
ID: 343 V_{1^n}
n: 1 ↦ID 518



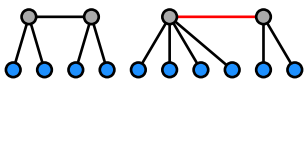
ID: 345 V_{1^n}
n: 1 ↦ID 521



ID: 344 V_{1^n}
n: 1 ↦ID 519



ID: 341 V_{1^n}
n: 1 ↤ID 195



ID: 342 V_{1^n}
n: 1 ↤ID 196

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

ID: 339 V_{1^n}
n: 1 ↦ID 516

ID: 337 V_{1^n}
n: 1 ↤ID 194

ID: 333 V_{1^n}
n: 1 ↤ID 192

ID: 334 V_{1^n}
n: 1 ↦ID 512

ID: 349 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 535

ID: 350 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 530

ID: 355 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 536

ID: 356 V_{1^n}
n: 4 1 ↤ID 198

ID: 357 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 538

ID: 358 V_{1^n}
n: 4 1 ↤ID 199

ID: 359 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 539

ID: 361 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 542

ID: 362 V_{1^n}
n: 4 1 ↦ID 543

ID: 363 V_{1^n}
n: 4 1 ↤ID 200

ID: 364 V_{1^n}
n: 1 ↤ID 201

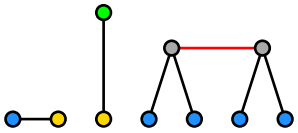
ID: 365 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↦ID 544

ID: 366 V_{1^n}
n: 1 ↤ID 202

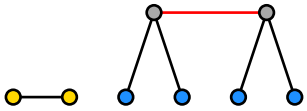
ID: 367 V_{1^n}
n: 1 ↦ID 545

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

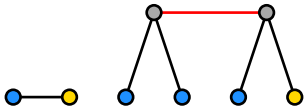
ID: 289 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\mapsto$ ID 466



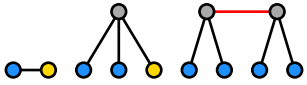
ID: 288 V_{1^n}
n: 7 4 1 Redundant



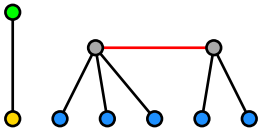
ID: 292 V_{1^n}
n: 7 4 1 $\mapsto$ ID 141



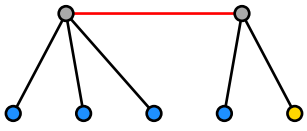
ID: 303 V_{1^n}
n: 4 1 $\mapsto$ ID 184



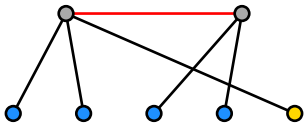
ID: 290 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\mapsto$ ID 462



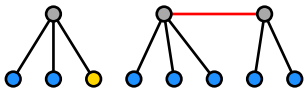
ID: 296 V_{1^n}
n: 7 4 1 $\mapsto$ ID 467



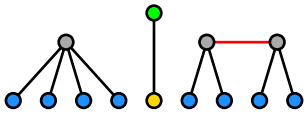
ID: 297 V_{1^n}
n: 7 4 1 Redundant



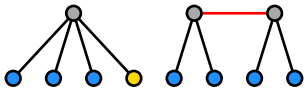
ID: 309 V_{1^n}
n: 4 1 $\mapsto$ ID 490



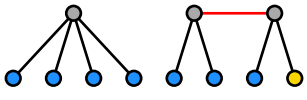
ID: 305 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 $\mapsto$ ID 483



ID: 304 V_{1^n}
n: 4 1 $\mapsto$ ID 482

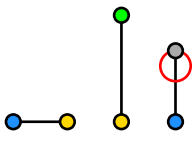


ID: 318 V_{1^n}
n: 4 1 Redundant

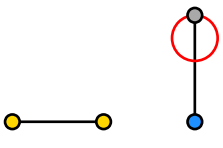


ID: 331 V_{1^n}
n: 1 $\mapsto$ ID 510

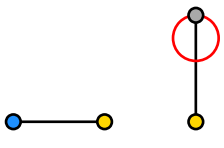
ID: 348 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1



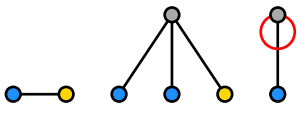
ID: 346 V_{1^n}
n: 10 7 4 1



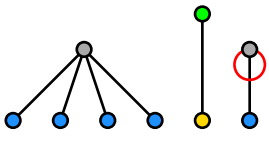
ID: 347 V_{1^n}
n: 10 7 4 1 Redundant



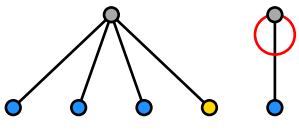
ID: 351 V_{1^n}
n: 7 4 1 $\mapsto$ ID 197



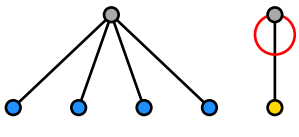
ID: 354 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\mapsto$ ID 533



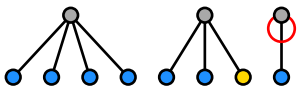
ID: 352 V_{1^n}
n: 7 4 1 $\mapsto$ ID 531



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

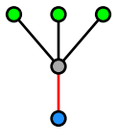


ID: 360 V_{1^n}
n: 4 1 $\mapsto$ ID 541

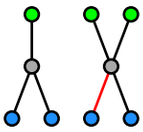


--------- edges: 13-n graphs: 178 ---------
--- A3 case graphs: 34 ---

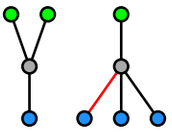
ID: 368 $V_{1^{n-3}} \boxtimes V_3$
n: 13 10 7 4 ↦ ID 576



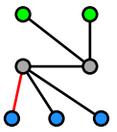
ID: 369 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4 ↦ ID 578



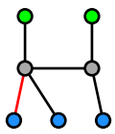
ID: 370 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$
n: 10 7 4 ↦ ID 577



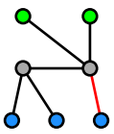
ID: 371 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↦ ID 553



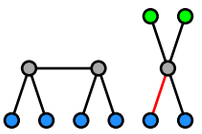
ID: 372 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↤ ID 204



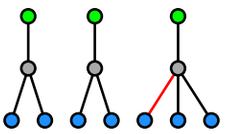
ID: 373 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↤ ID 205



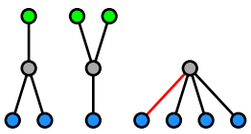
ID: 374 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ ID 209



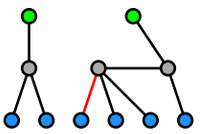
ID: 375 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$
n: 7 4 ↦ ID 586



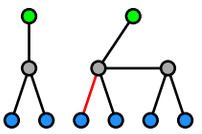
ID: 376 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 7 4 ↦ ID 582



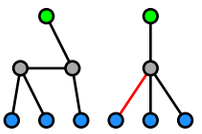
ID: 377 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 561



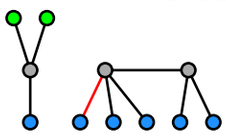
ID: 378 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ ID 211



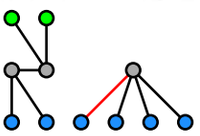
ID: 379 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ ID 212



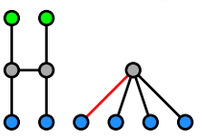
ID: 380 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ ID 213



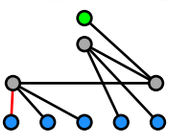
ID: 381 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ ID 214



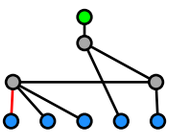
ID: 382 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↦ ID 584



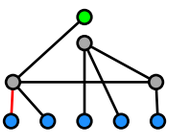
ID: 383 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ ID 565



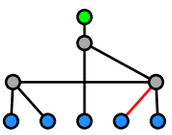
ID: 384 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 217



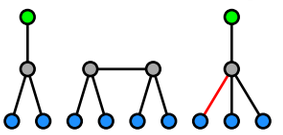
ID: 385 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 226



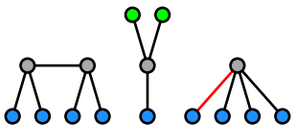
ID: 386 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ ID 223



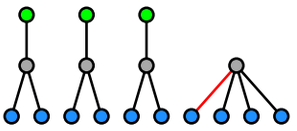
ID: 387 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 ↤ ID 228



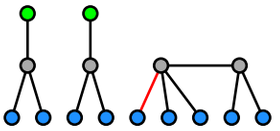
ID: 388 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↤ ID 229



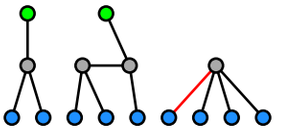
ID: 389 $V_{1^{n-3}} \boxtimes V_3$
n: 4 ↦ ID 596



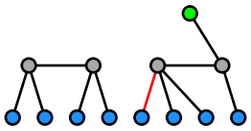
ID: 390 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↤ ID 230



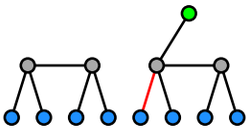
ID: 391 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 ↤ ID 231



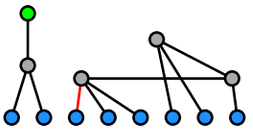
ID: 392 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 236



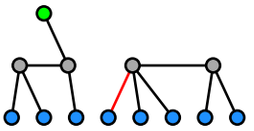
ID: 393 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 237



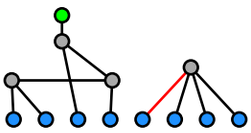
ID: 394 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 244



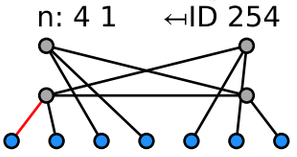
ID: 395 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 246



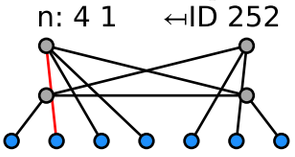
ID: 396 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ ID 248



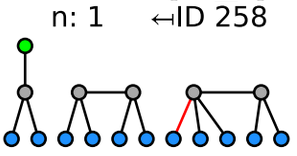
ID: 397 V_{1^n}
n: 4 1 ↤ ID 254



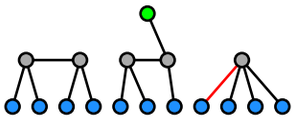
ID: 398 V_{1^n}
n: 4 1 ↤ ID 252



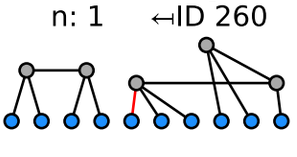
ID: 399 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↤ ID 258



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

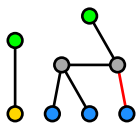


ID: 401 V_{1^n}
n: 1 ↤ ID 260

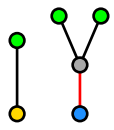


--- A2 case with weight 13 relations relation groups: 8 ---

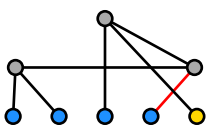
ID: 407 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



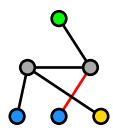
ID: 402 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 13 10 7 4



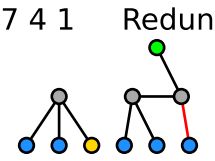
ID: 425 V_{1^n}
n: 7 4 1 ↤ID 274



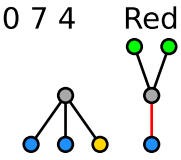
ID: 411 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 ↦ID 556



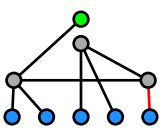
ID: 426 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



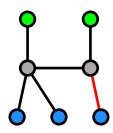
ID: 408 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 Redundant



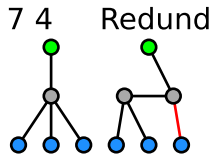
ID: 429 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 222



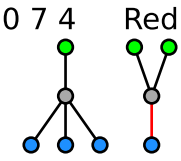
ID: 409 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↦ID 552



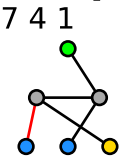
ID: 418 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 Redundant



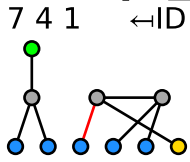
ID: 406 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4 Redundant



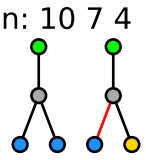
ID: 410 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 ↤ID 206



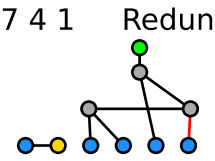
ID: 422 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 218



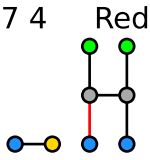
ID: 405 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



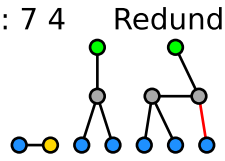
ID: 420 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



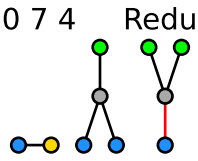
ID: 404 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 Redundant



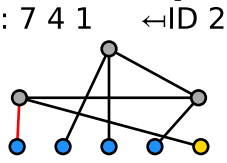
ID: 413 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 Redundant



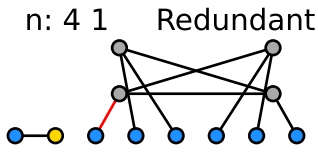
ID: 403 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4 Redundant



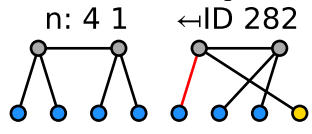
ID: 424 V_{1^n}
n: 7 4 1 ↤ID 277



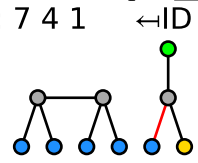
ID: 434 V_{1^n}
n: 4 1 Redundant



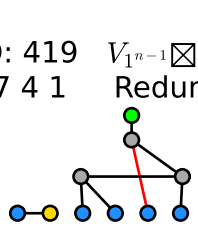
ID: 437 V_{1^n}
n: 4 1 ↤ID 282



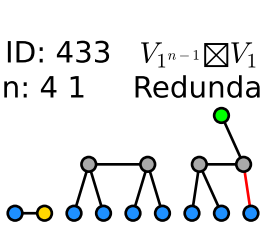
ID: 421 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 276



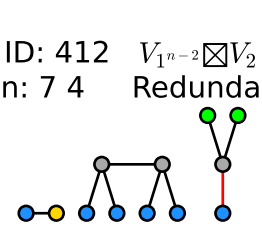
ID: 419 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



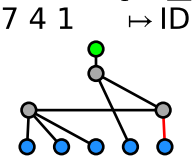
ID: 433 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant



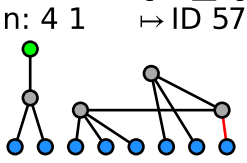
ID: 412 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 Redundant



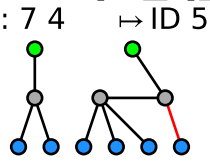
ID: 428 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↦ID 566



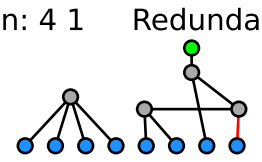
ID: 440 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↦ID 572



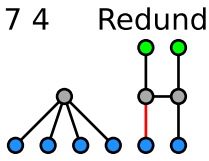
ID: 417 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ID 560



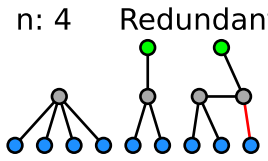
ID: 436 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant



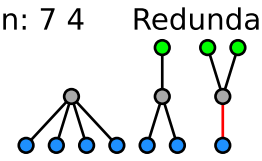
ID: 415 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 Redundant



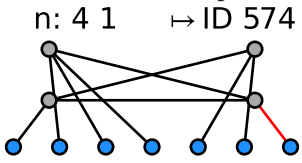
ID: 432 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 Redundant



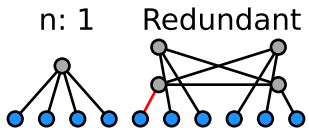
ID: 414 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 7 4 Redundant



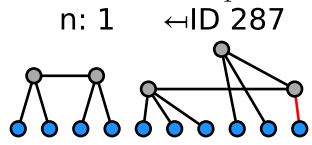
ID: 443 V_{1^n}
n: 4 1 ↦ID 574



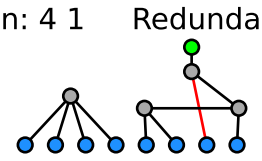
ID: 445 V_{1^n}
n: 1 Redundant



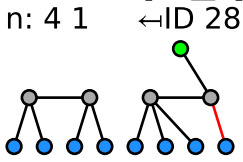
ID: 446 V_{1^n}
n: 1 ↤ID 287



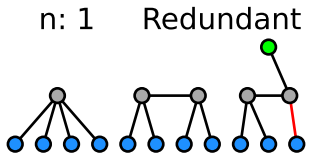
ID: 435 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant



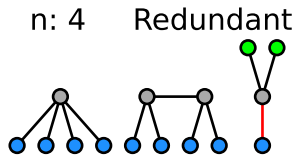
ID: 438 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 283



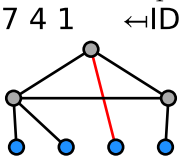
ID: 444 $V_{1^{n-1}} \boxtimes V_1$
n: 1 Redundant



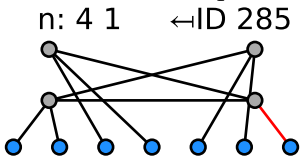
ID: 431 $V_{1^{n-2}} \boxtimes V_2$
n: 4 Redundant



ID: 423 V_{1^n}
n: 7 4 1 ↤ID 295



ID: 441 V_{1^n}
n: 4 1 ↤ID 285



ID: 442 V_{1^n}
n: 4 1 Redundant

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

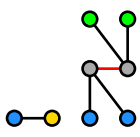
ID: 430 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 278

ID: 439 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant

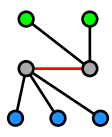
ID: 416 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 Redundant

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

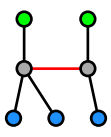
ID: 448 $V_1^{n-2} \boxtimes V_2$
n: 10 7 4 ↤ ID 203



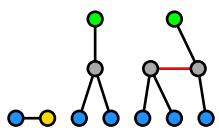
ID: 449 $V_1^{n-2} \boxtimes V_2$
n: 10 7 4 ↦ ID 581



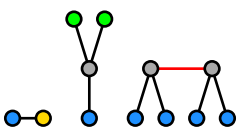
ID: 450 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↦ ID 580



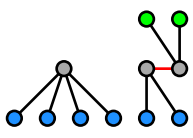
ID: 456 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ ID 207



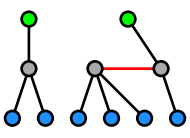
ID: 452 $V_1^{n-2} \boxtimes V_2$
n: 7 4 ↤ ID 208



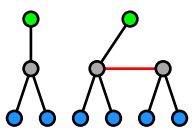
ID: 460 $V_1^{n-2} \boxtimes V_2$
n: 7 4 ↦ ID 590



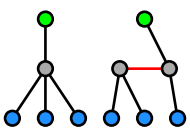
ID: 458 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 588



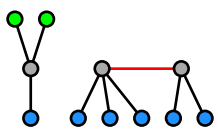
ID: 459 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 589



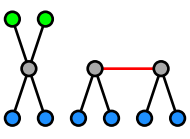
ID: 457 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 587



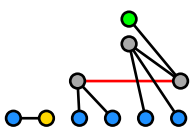
ID: 455 $V_1^{n-2} \boxtimes V_2$
n: 7 4 ↦ ID 585



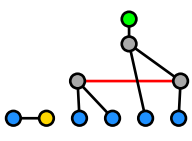
ID: 454 $V_1^{n-2} \boxtimes V_2$
n: 7 4 ↦ ID 583



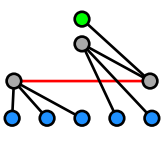
ID: 465 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 216



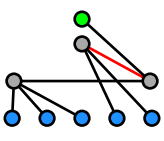
ID: 466 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 289



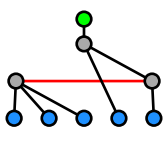
ID: 469 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 293



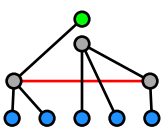
ID: 472 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 298



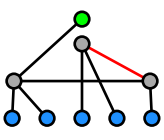
ID: 473 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 300



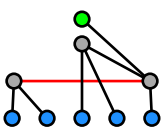
ID: 470 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↦ ID 591



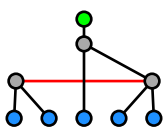
ID: 475 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↦ ID 592



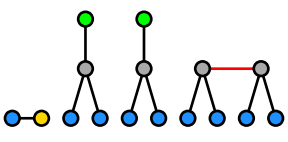
ID: 471 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 294



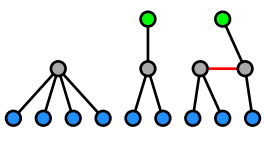
ID: 474 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 299



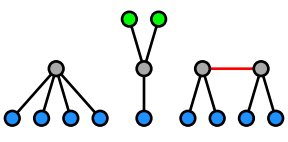
ID: 476 $V_1^{n-2} \boxtimes V_2$
n: 4 ↤ ID 227



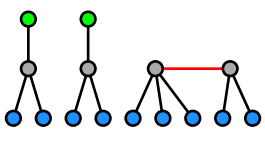
ID: 480 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 4 ↦ ID 599



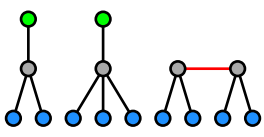
ID: 477 $V_1^{n-2} \boxtimes V_2$
n: 4 ↦ ID 595



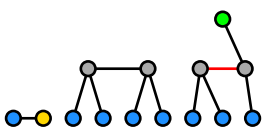
ID: 479 $V_1^{n-2} \boxtimes V_2$
n: 4 ↦ ID 598



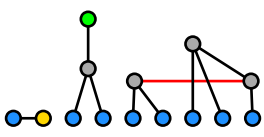
ID: 478 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 4 ↦ ID 597



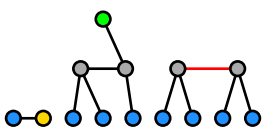
ID: 491 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 311



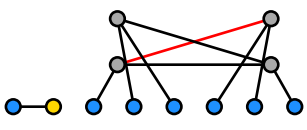
ID: 488 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 307



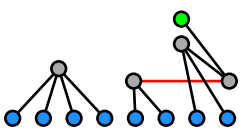
ID: 481 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 302



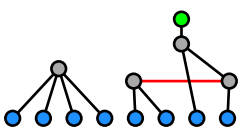
ID: 496 V_1^{n}
n: 4 1 ↤ ID 315



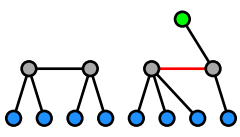
ID: 500 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↦ ID 603



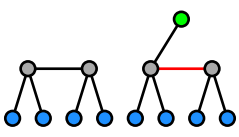
ID: 501 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↦ ID 604



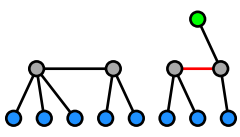
ID: 498 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 319



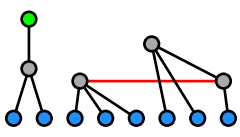
ID: 499 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 320



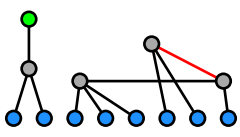
ID: 492 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 312



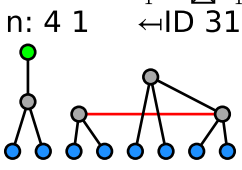
ID: 493 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 314



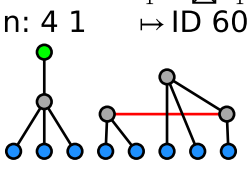
ID: 495 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↦ ID 602



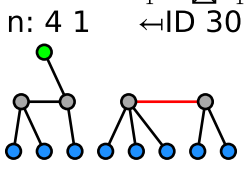
ID: 494 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 313



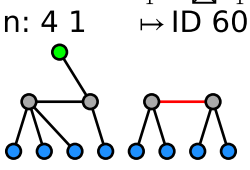
ID: 489 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↦ ID 601



ID: 487 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 308



ID: 485 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↦ ID 600



ID: 486 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 306

ID: 502 V_1^{n}
n: 4 1 ↦ ID 605

ID: 503 V_1^{n}
n: 4 1 ↤ ID 326

ID: 505 V_1^{n}
n: 4 1 ↤ ID 324

ID: 506 V_1^{n}
n: 4 1 ↤ ID 325

ID: 504 V_1^{n}
n: 4 1 ↤ ID 321

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

ID: 514 V_1^{n}
n: 1 ↤ ID 338

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

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

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

ID: 521 V_1^{n}
n: 1 ↤ ID 345

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

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

ID: 518 V_1^{n}
n: 1 ↤ ID 343

ID: 520 V_1^{n}
n: 1 ↦ ID 609

ID: 519 V_1^{n}
n: 1 ↤ ID 344

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

ID: 516 V_1^{n}
n: 1 ↤ ID 339

ID: 512 V_1^{n}
n: 1 ↤ ID 334

ID: 522 $V_1^{n-2} \boxtimes V_2$
n: 10 7 4 ↦ ID 611

ID: 524 $V_1^{n-2} \boxtimes V_2$
n: 10 7 4 ↦ ID 612

ID: 527 $V_1^{n-2} \boxtimes V_2$
n: 7 4

ID: 528 $V_1^{n-2} \boxtimes V_2$
n: 7 4 ↦ ID 613

ID: 529 $V_1^{n-2} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↦ ID 615

ID: 530 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 350

ID: 535 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 349

ID: 536 $V_1^{n-1} \boxtimes V_1$
n: 7 4 1 ↤ ID 355

ID: 537 $V_1^{n-2} \boxtimes V_2$
n: 4 ↦ ID 617

ID: 538 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 357

ID: 539 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 359

ID: 540 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↦ ID 618

ID: 542 $V_1^{n-1} \boxtimes V_1$
n: 4 1 ↤ ID 361

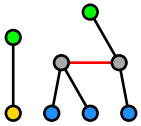
ID: 543 V_1^{n}
n: 4 1 ↤ ID 362

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

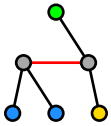
ID: 545 V_1^{n}
n: 1 ↤ ID 367

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

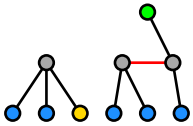
ID: 447 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 $\mapsto$ ID 579



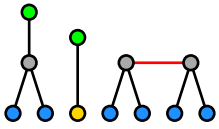
ID: 451 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 Redundant



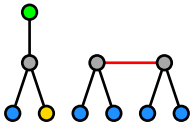
ID: 463 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\mapsto$ ID 593



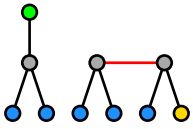
ID: 453 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 $\hookleftarrow$ ID 210



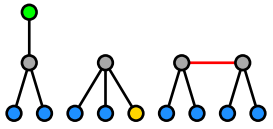
ID: 461 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\mapsto$ ID 594



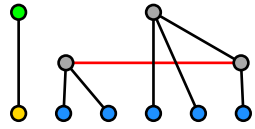
ID: 464 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



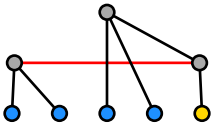
ID: 484 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 $\hookleftarrow$ ID 301



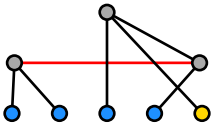
ID: 462 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\hookleftarrow$ ID 290



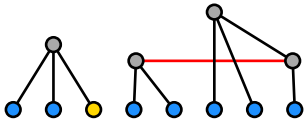
ID: 467 V_{1^n}
n: 7 4 1 $\hookleftarrow$ ID 296



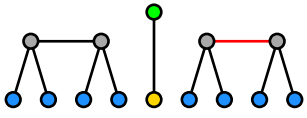
ID: 468 V_{1^n}
n: 7 4 1 Redundant



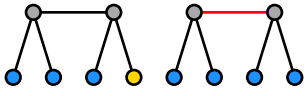
ID: 490 V_{1^n}
n: 4 1 $\hookleftarrow$ ID 309



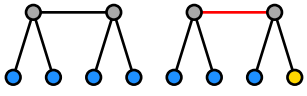
ID: 483 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 $\hookleftarrow$ ID 305



ID: 482 V_{1^n}
n: 4 1 $\hookleftarrow$ ID 304

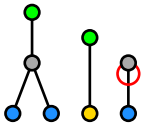


ID: 497 V_{1^n}
n: 4 1 Redundant

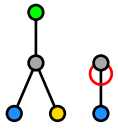


ID: 510 V_{1^n}
n: 1 $\hookleftarrow$ ID 331

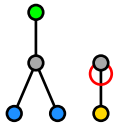
ID: 523 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



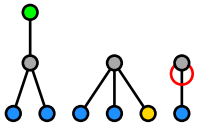
ID: 525 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 $\hookleftarrow$ ID 270



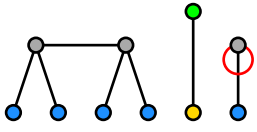
ID: 526 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 Redundant



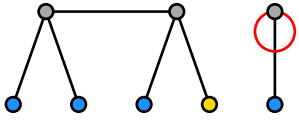
ID: 534 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\mapsto$ ID 616



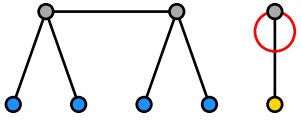
ID: 533 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 $\hookleftarrow$ ID 354



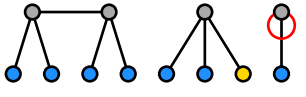
ID: 531 V_{1^n}
n: 7 4 1 $\hookleftarrow$ ID 352



ID: 532 V_{1^n}
n: 7 4 1 Redundant

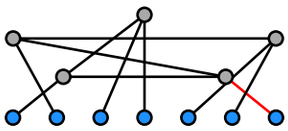


ID: 541 V_{1^n}
n: 4 1 $\hookleftarrow$ ID 360

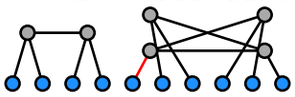


--------- edges: 14-n graphs: 73 ---------
--- A2 case with weight 13 relations relation groups: 6 ---

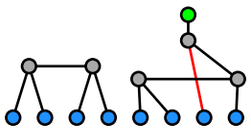
ID: 574 V_{1^n}
n: 4 1 ↤ID 443



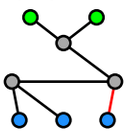
ID: 575 V_{1^n}
n: 1 Redundant



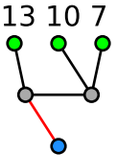
ID: 570 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant



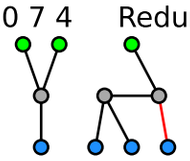
ID: 553 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↤ID 371



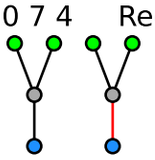
ID: 547 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 13 10 7 4



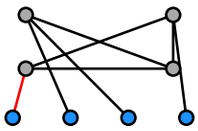
ID: 551 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$
n: 10 7 4 Redundant



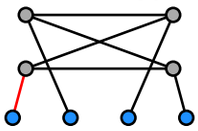
ID: 546 $V_{1^{n-4}} \boxtimes V_2 \boxtimes V_2$
n: 13 10 7 4 Redundant



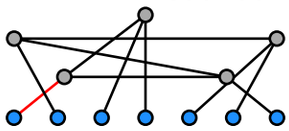
ID: 563 V_{1^n}
n: 7 4 1



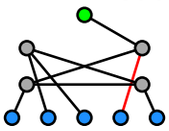
ID: 564 V_{1^n}
n: 7 4 1 Redundant



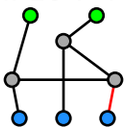
ID: 573 V_{1^n}
n: 4 1 Redundant



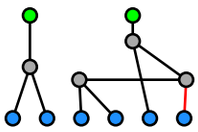
ID: 567 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



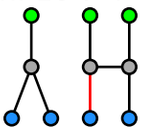
ID: 555 $V_{1^{n-2}} \boxtimes V_{1^2}$
n: 10 7 4



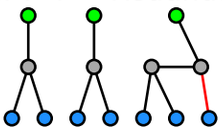
ID: 561 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ID 377



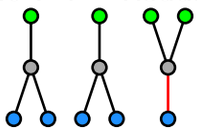
ID: 549 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_1 \boxtimes V_1$
n: 10 7 4



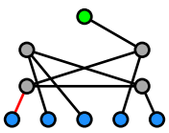
ID: 559 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$
n: 7 4 Redundant



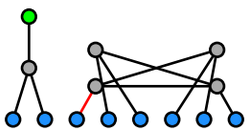
ID: 548 $V_{1^{n-4}} \boxtimes V_2 \boxtimes V_2$
n: 10 7 4 Redundant



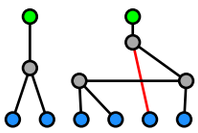
ID: 566 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 428



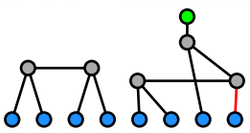
ID: 572 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 440



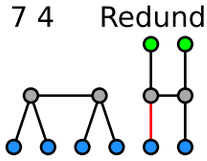
ID: 560 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ID 417



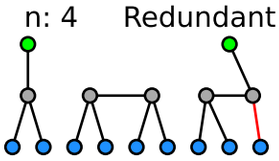
ID: 571 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 Redundant



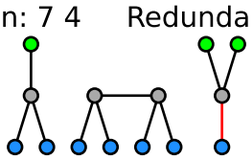
ID: 558 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 Redundant



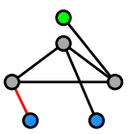
ID: 569 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 Redundant



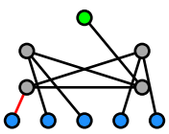
ID: 557 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 7 4 Redundant



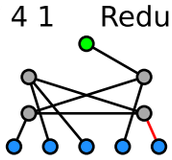
ID: 556 $V_{1^{n-1}} \boxtimes V_1$
n: 10 7 4 1 ↤ID 411



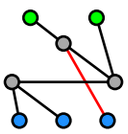
ID: 565 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 383



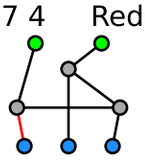
ID: 568 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 Redundant



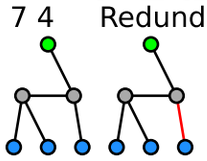
ID: 552 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↤ID 409



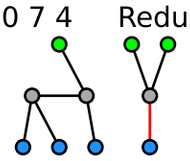
ID: 554 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 Redundant



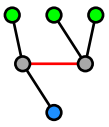
ID: 562 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 Redundant



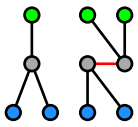
ID: 550 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4 Redundant



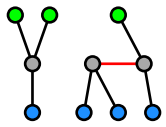
ID: 576 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 13 10 7 4 ↤ID 368



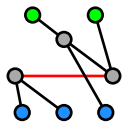
ID: 578 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4 ↤ID 369



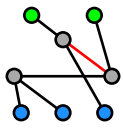
ID: 577 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$
n: 10 7 4 ↤ID 370



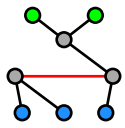
ID: 579 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↤ID 447



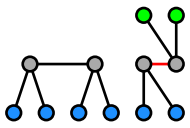
ID: 580 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 10 7 4 ↤ID 450



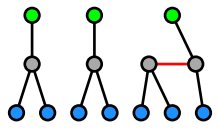
ID: 581 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↤ID 449



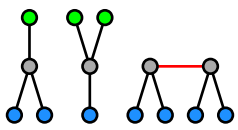
ID: 590 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ID 460



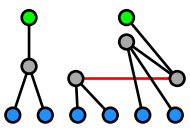
ID: 586 $V_{1^{n-3}} \boxtimes V_2 \boxtimes V_1$
n: 7 4 ↤ID 375



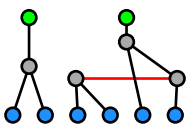
ID: 582 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 7 4 ↤ID 376



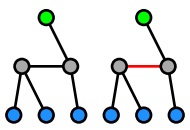
ID: 588 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ID 458



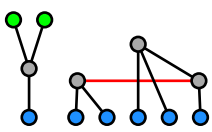
ID: 589 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ID 459



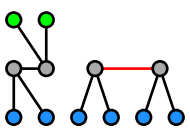
ID: 587 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ID 457



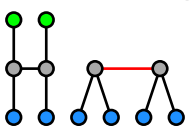
ID: 585 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ID 455



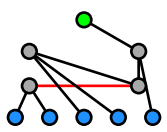
ID: 583 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ID 454



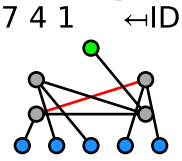
ID: 584 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ID 382



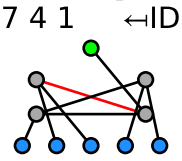
ID: 591 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 470



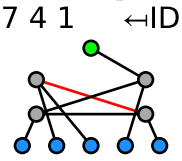
ID: 592 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 475



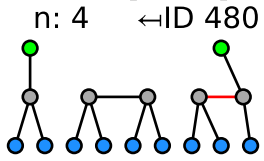
ID: 593 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 463



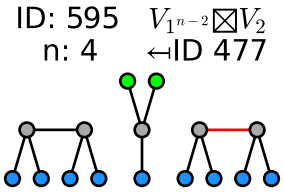
ID: 594 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 461



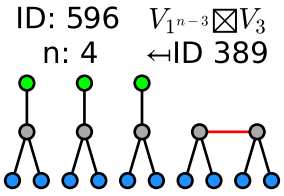
ID: 599 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 ↤ID 480



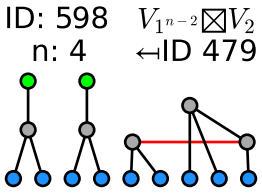
ID: 595 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↤ID 477



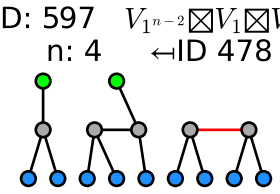
ID: 596 $V_{1^{n-3}} \boxtimes V_3$
n: 4 ↤ID 389



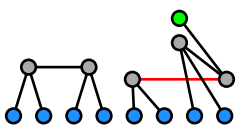
ID: 598 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↤ID 479



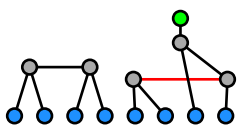
ID: 597 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 4 ↤ID 478



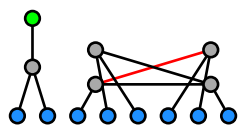
ID: 603 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 500



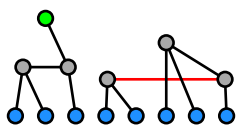
ID: 604 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 501



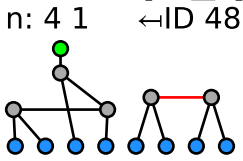
ID: 602 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 495



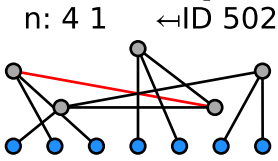
ID: 601 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 489



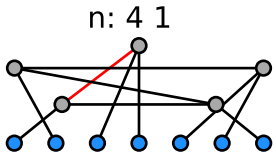
ID: 600 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 485



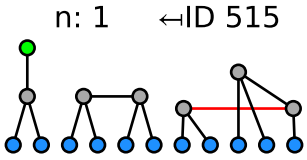
ID: 605 V_{1^n}
n: 4 1 ↤ID 502



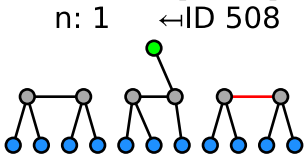
ID: 606 V_{1^n}
n: 4 1



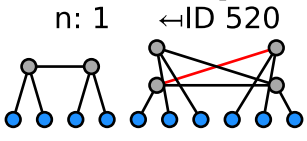
ID: 608 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↤ID 515



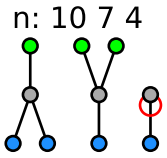
ID: 607 $V_{1^{n-1}} \boxtimes V_1$
n: 1 ↤ID 508



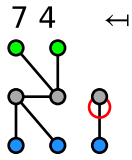
ID: 609 V_{1^n}
n: 1 ↤ID 520



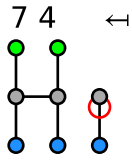
ID: 610 $V_{1^{n-3}} \boxtimes V_1 \boxtimes V_2$
n: 10 7 4



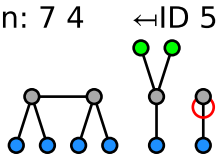
ID: 611 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↤ID 522



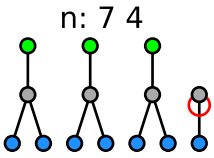
ID: 612 $V_{1^{n-2}} \boxtimes V_2$
n: 10 7 4 ↤ID 524



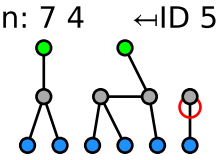
ID: 613 $V_{1^{n-2}} \boxtimes V_2$
n: 7 4 ↤ID 528



ID: 614 $V_{1^{n-3}} \boxtimes V_3$
n: 7 4



ID: 615 $V_{1^{n-2}} \boxtimes V_1 \boxtimes V_1$
n: 7 4 ↤ID 529



ID: 616 $V_{1^{n-1}} \boxtimes V_1$
n: 7 4 1 ↤ID 534

ID: 617 $V_{1^{n-2}} \boxtimes V_2$
n: 4 ↤ID 537

ID: 618 $V_{1^{n-1}} \boxtimes V_1$
n: 4 1 ↤ID 540