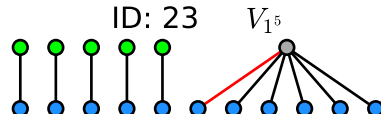
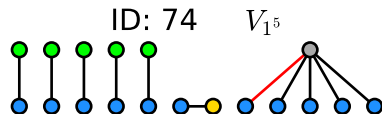
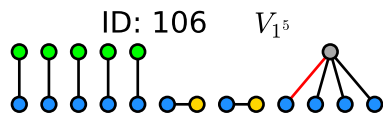
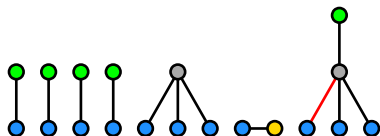


----- g,n: 6,5 graphs: 84 ----- Euler Characteristic (without resolving relations):
 ----- $2V_1^5 + 4V_1^4 \boxtimes V_1 - 1V_1^3 \boxtimes V_2 - 2V_1^3 \boxtimes V_1 \boxtimes V_1 - 1V_1^2 \boxtimes V_1 \boxtimes V_2$ -----
 ----- edges: 5 graphs: 3 -----
 ----- A3 case graphs: 3 -----

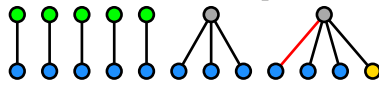


----- edges: 6 graphs: 19 -----
 ----- A3 case graphs: 12 -----

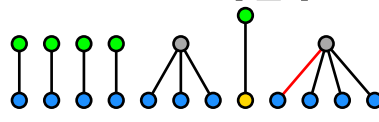
ID: 75 $V_1^4 \boxtimes V_1$



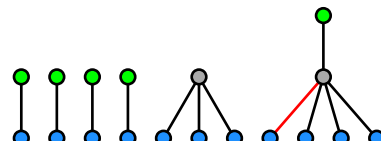
ID: 24 V_1^5



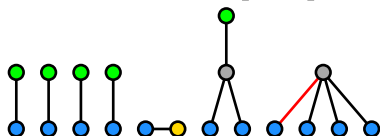
ID: 53 $V_1^4 \boxtimes V_1$



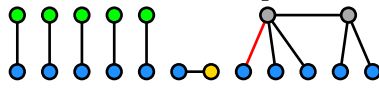
ID: 25 $V_1^4 \boxtimes V_1$



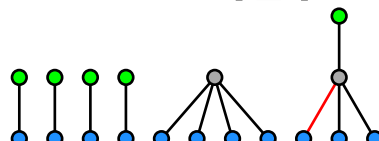
ID: 108 $V_1^4 \boxtimes V_1$



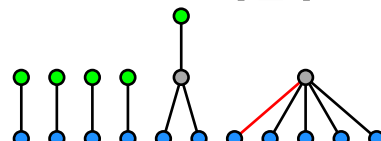
ID: 76 V_1^5



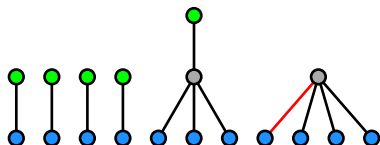
ID: 83 $V_1^4 \boxtimes V_1$



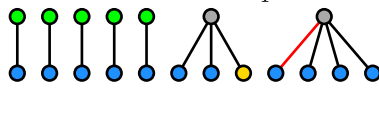
ID: 90 $V_1^4 \boxtimes V_1$



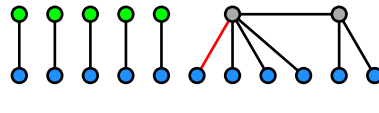
ID: 56 $V_1^4 \boxtimes V_1$



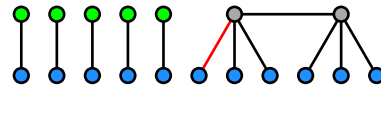
ID: 55 V_1^5



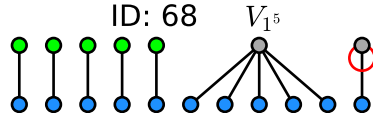
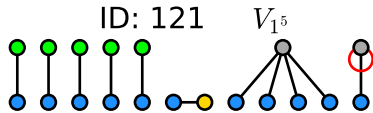
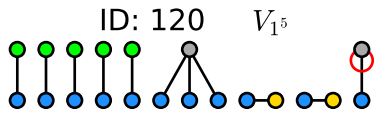
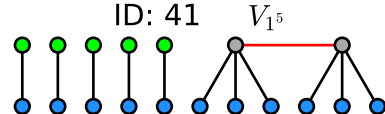
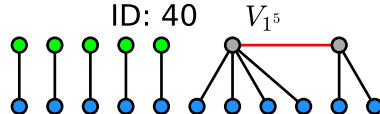
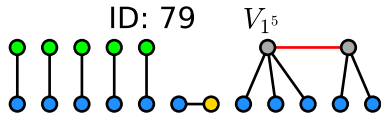
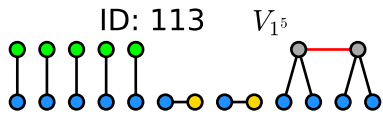
ID: 27 V_1^5



ID: 28 V_1^5



----- B,Birr cases without weight 11 relations graphs: 7 -----

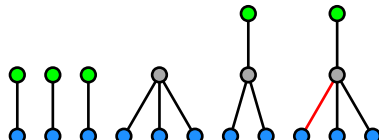


----- edges: 7 graphs: 40 -----
 ----- A3 case graphs: 10 -----

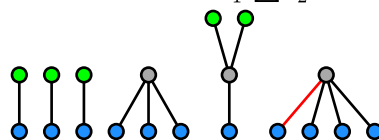
ID: 26 $V_1^3 \boxtimes V_2$



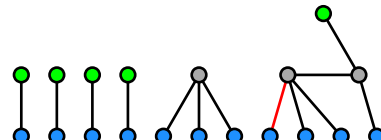
ID: 91 $V_1^3 \boxtimes V_1 \boxtimes V_1$



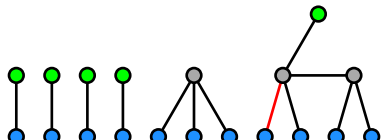
ID: 57 $V_1^3 \boxtimes V_2$



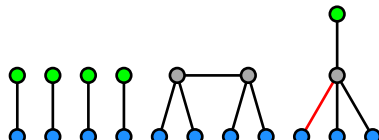
ID: 29 $V_1^4 \boxtimes V_1$



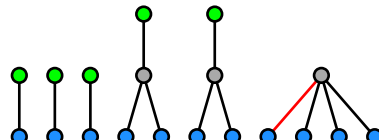
ID: 30 $V_1^4 \boxtimes V_1$



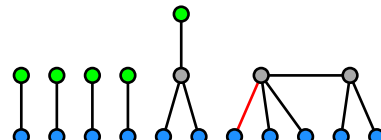
ID: 99 $V_1^4 \boxtimes V_1$



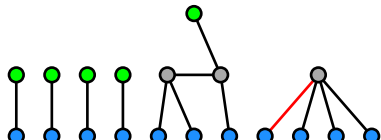
ID: 111 $V_1^3 \boxtimes V_2$



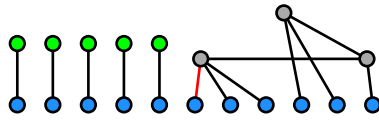
ID: 92 $V_1^4 \boxtimes V_1$



ID: 59 $V_1^4 \boxtimes V_1$

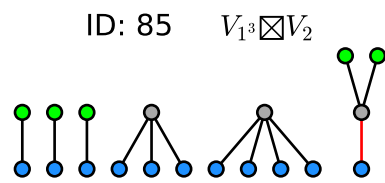
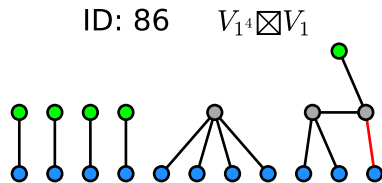
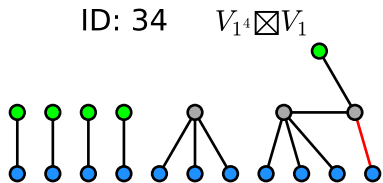
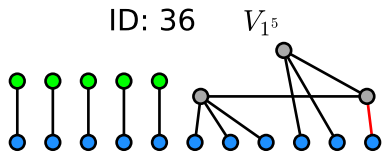
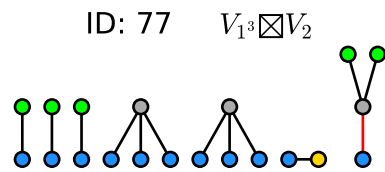
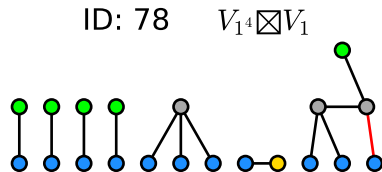
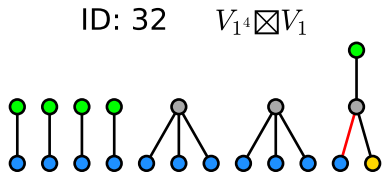
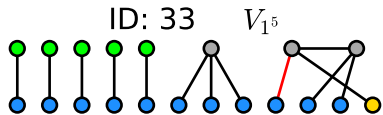


ID: 31 V_1^5



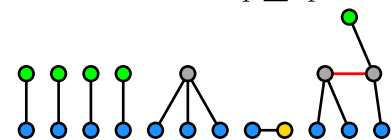
----- A2 case with weight 13 relations

relation groups: 2 -----

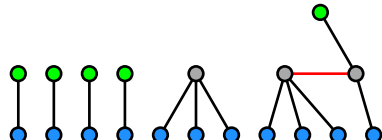


----- B,Birr cases without weight 11 relations graphs: 16 -----

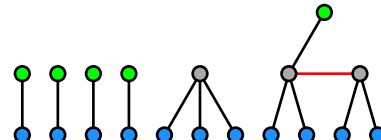
ID: 80 $V_1^4 \boxtimes V_1$



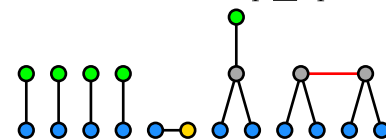
ID: 43 $V_1^4 \boxtimes V_1$



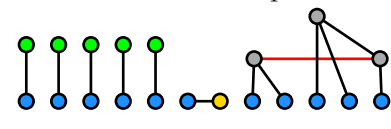
ID: 44 $V_1^4 \boxtimes V_1$



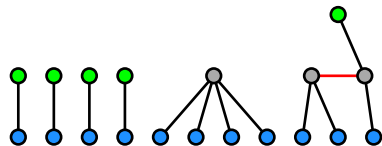
ID: 115 $V_1^4 \boxtimes V_1$



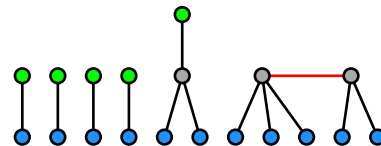
ID: 81 V_1^5



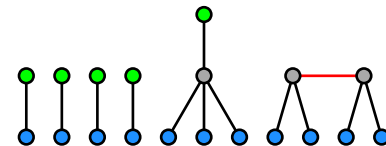
ID: 88 $V_1^4 \boxtimes V_1$



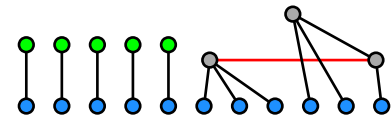
ID: 95 $V_1^4 \boxtimes V_1$



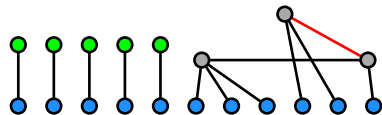
ID: 63 $V_1^4 \boxtimes V_1$



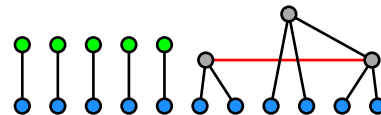
ID: 46 V_1^5



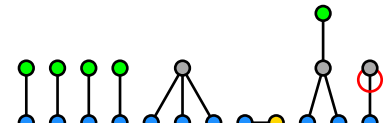
ID: 47 V_1^5



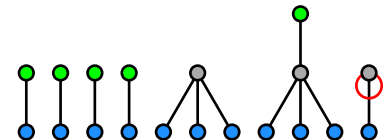
ID: 48 V_1^5



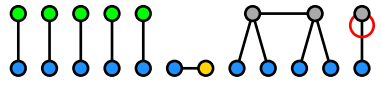
ID: 122 $V_1^4 \boxtimes V_1$



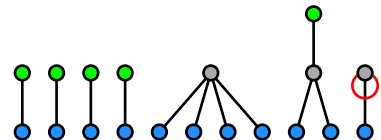
ID: 70 $V_1^4 \boxtimes V_1$



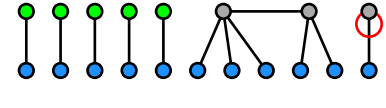
ID: 123 V_1^5



ID: 125 $V_1^4 \boxtimes V_1$



ID: 72 V_1^5

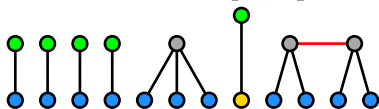


----- B,Birr cases with weight 11 relations

relation groups: 2 -----

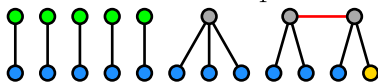
ID: 60

$V_1^4 \boxtimes V_1$



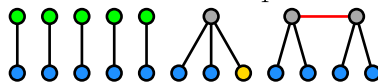
ID: 42

V_1^5



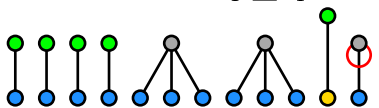
ID: 62

V_1^5



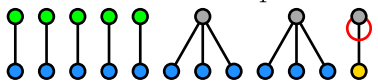
ID: 67

$V_1^4 \boxtimes V_1$



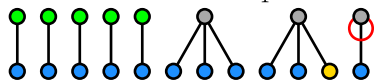
ID: 52

V_1^5



ID: 69

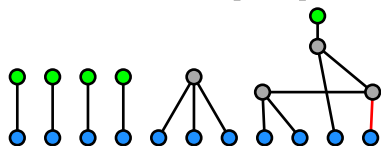
V_1^5



----- edges: 8 graphs: 22 -----
 ----- A2 case with weight 13 relations relation groups: 2 -----

ID: 38

$V_1^4 \boxtimes V_1$



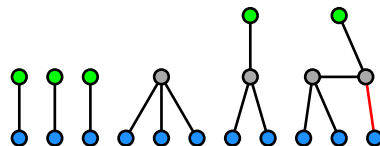
ID: 35

$V_1^3 \boxtimes V_1 \boxtimes V_1$



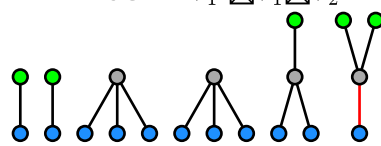
ID: 94

$V_1^3 \boxtimes V_1 \boxtimes V_1$



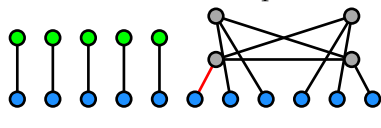
ID: 93

$V_1^2 \boxtimes V_1 \boxtimes V_2$



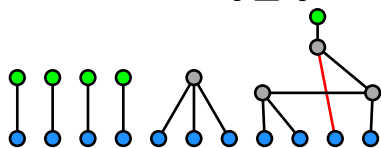
ID: 39

V_1^5



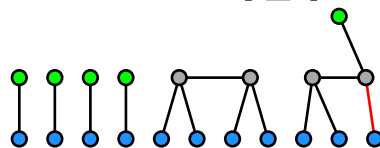
ID: 37

$V_1^4 \boxtimes V_1$



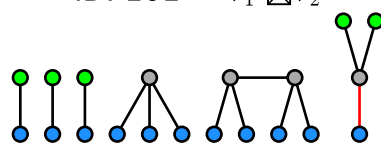
ID: 102

$V_1^4 \boxtimes V_1$



ID: 101

$V_1^3 \boxtimes V_2$



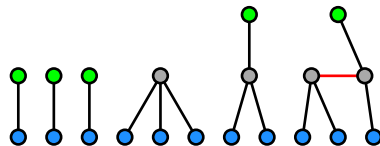
----- B,Birr cases without weight 11 relations

graphs: 14 -----

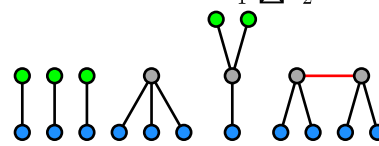
ID: 45 $V_1^3 \boxtimes V_2$



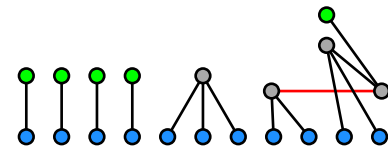
ID: 96 $V_1^3 \boxtimes V_1 \boxtimes V_1$



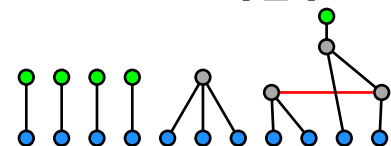
ID: 64 $V_1^3 \boxtimes V_2$



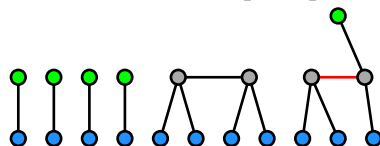
ID: 49 $V_1^4 \boxtimes V_1$



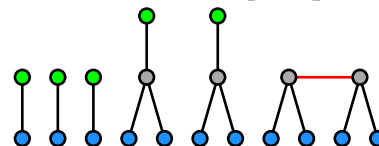
ID: 50 $V_1^4 \boxtimes V_1$



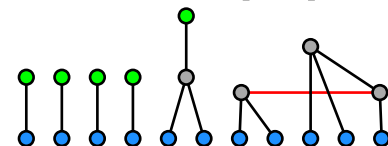
ID: 104 $V_1^4 \boxtimes V_1$



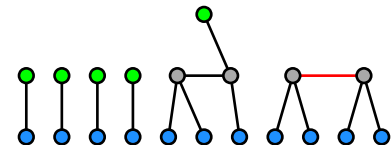
ID: 118 $V_1^3 \boxtimes V_2$



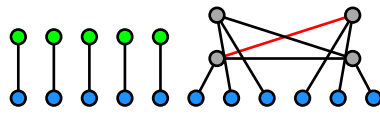
ID: 97 $V_1^4 \boxtimes V_1$



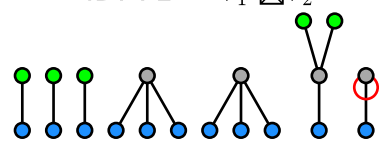
ID: 66 $V_1^4 \boxtimes V_1$



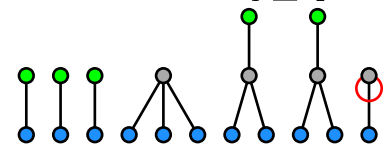
ID: 51 V_1^5



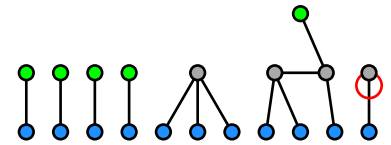
ID: 71 $V_1^3 \boxtimes V_2$



ID: 127 $V_1^3 \boxtimes V_2$



ID: 73 $V_1^4 \boxtimes V_1$



ID: 128 $V_1^4 \boxtimes V_1$

