Number of vertices $n = 5$.
Adjacencies of Graph

1. vertex 1 adjacent to 2 3 4 5

2. vertex 2 adjacent to 1 3 4 5

3. vertex 3 adjacent to 1 2

4. vertex 4 adjacent to 1 2

5. vertex 5 adjacent to 1 2

Size of automorphism group of the graph=12
 Full group: $|Aut(polytope)| = 4608$
 Restricted group: $|Aut(G) \times switch| = 192$
 Number of orbits for the full group : 1
 List of orbits of facets for the full group: Total number of orbits $= 1$ Total number of facets $= 12$

1. Inequality 1 with incidence 12 and stabilizer of size 384. Orbit size is 12 nature: 3-cycle inequality, C=[1, 5, 2] F=[1, 5]

(1,2) : 1 (2,5) : 1	(1,3) : 0	(1,4) : 0	(1,5) : -1	(2,3) : 0	(2,4) : 0

Number of orbits for the restricted group : 1
 List of orbits of facets for the restricted group: Total number of orbits $=$ 1 Total number of facets $= 12$

1. Inequality 1 with incidence 12 and stabilizer of size 16. Orbit size is 12 nature: 3-cycle inequality, C=[1, 5, 2] F=[1, 5]

(1,2) : 1 (2,5) : 1	(1,3) : 0	(1,4) : 0	(1,5) : -1	(2,3) : 0	(2,4) : 0

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