## What is the quantum subgroup doing?





## QUBO

- We have to define the qubo entries so that the minimisation of the QUBO leads to the correct triplet pairs
- The QUBO entries may also be learned using supervised learning:
  - We know what triplets are good/bad
  - Simulated annealing is a classical way to find the lowest energy state



## Framework preparations



Max cluster size:

Xi3: 3 Xi4: 60 Xi5: 450 (possible for DWAVE! 5000q)

## Implementation: what I have been working on

