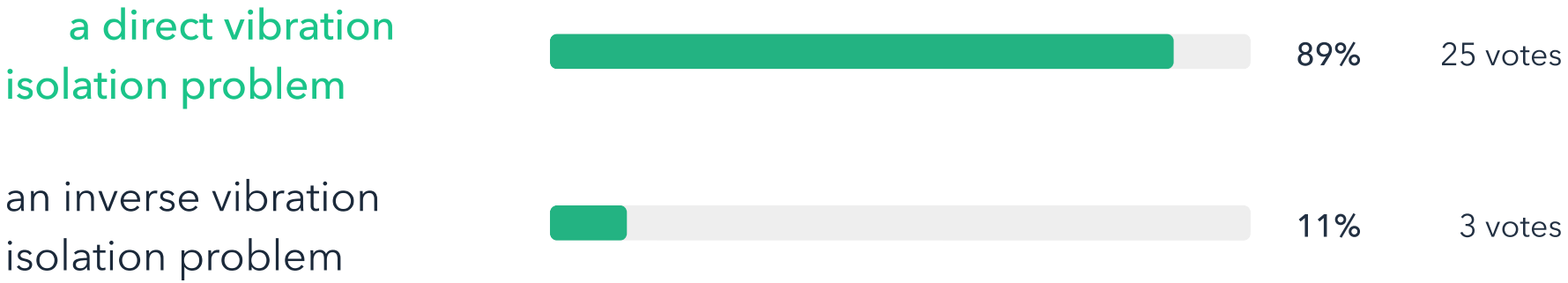
Vibrations and Acoustics - Isolation

Number of participants: 31

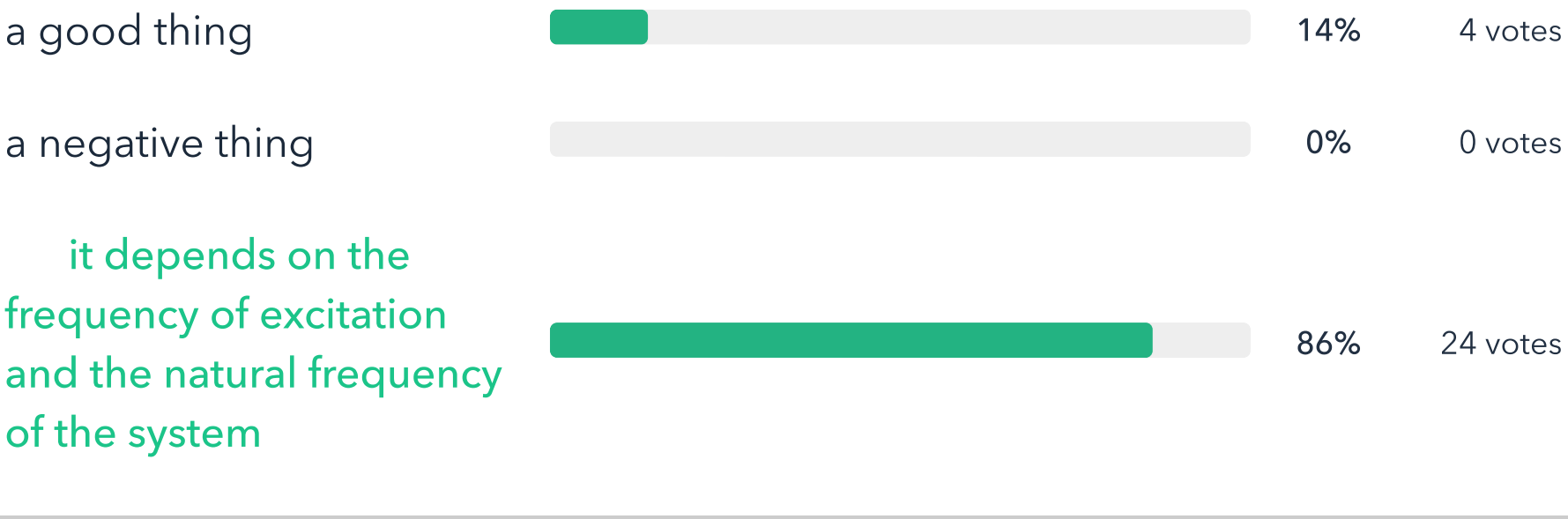
1

The problem of transmission of vibrations from a tram to the surroundings should be treated as



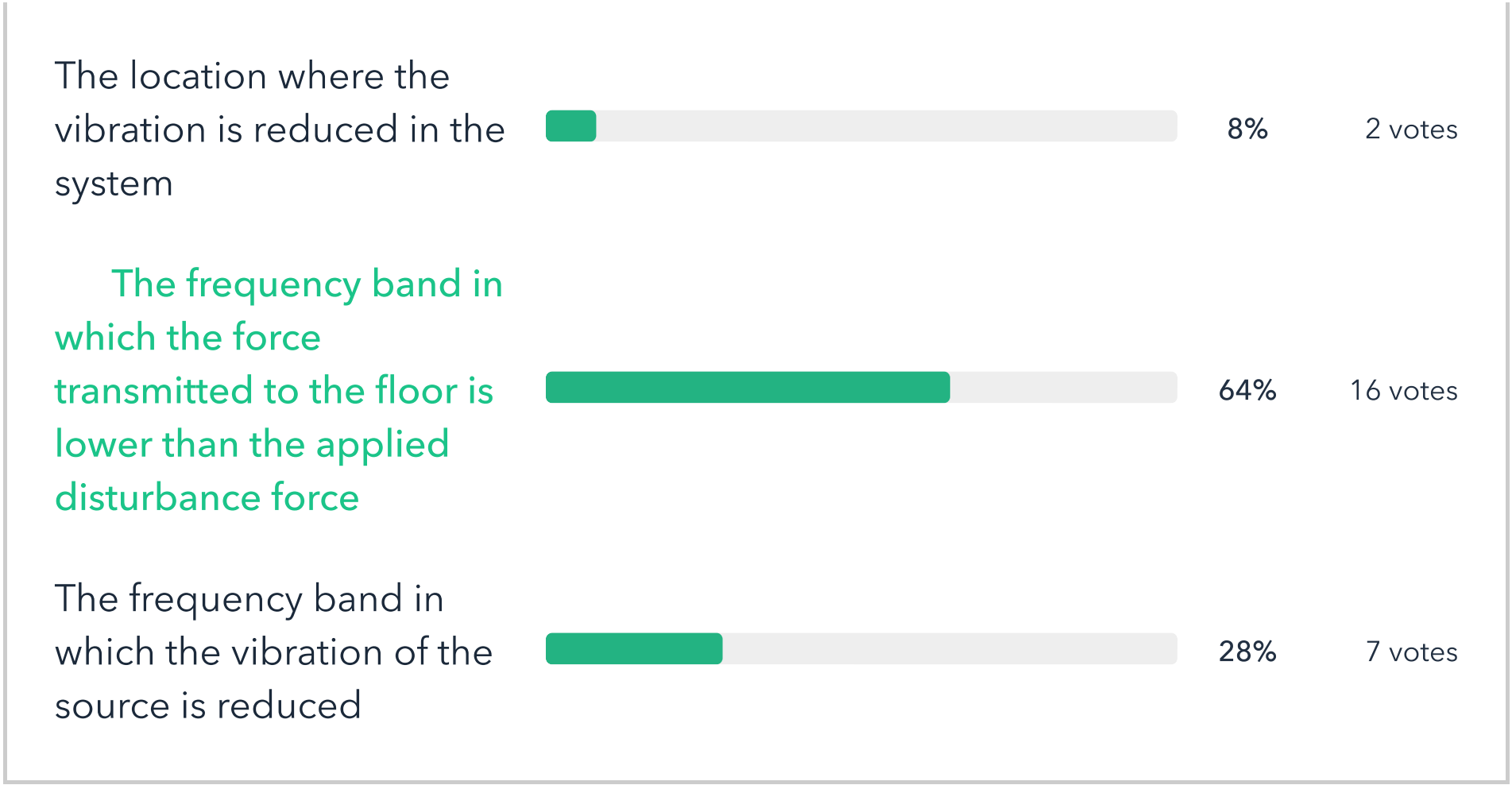
2

In an isolation system, damping is



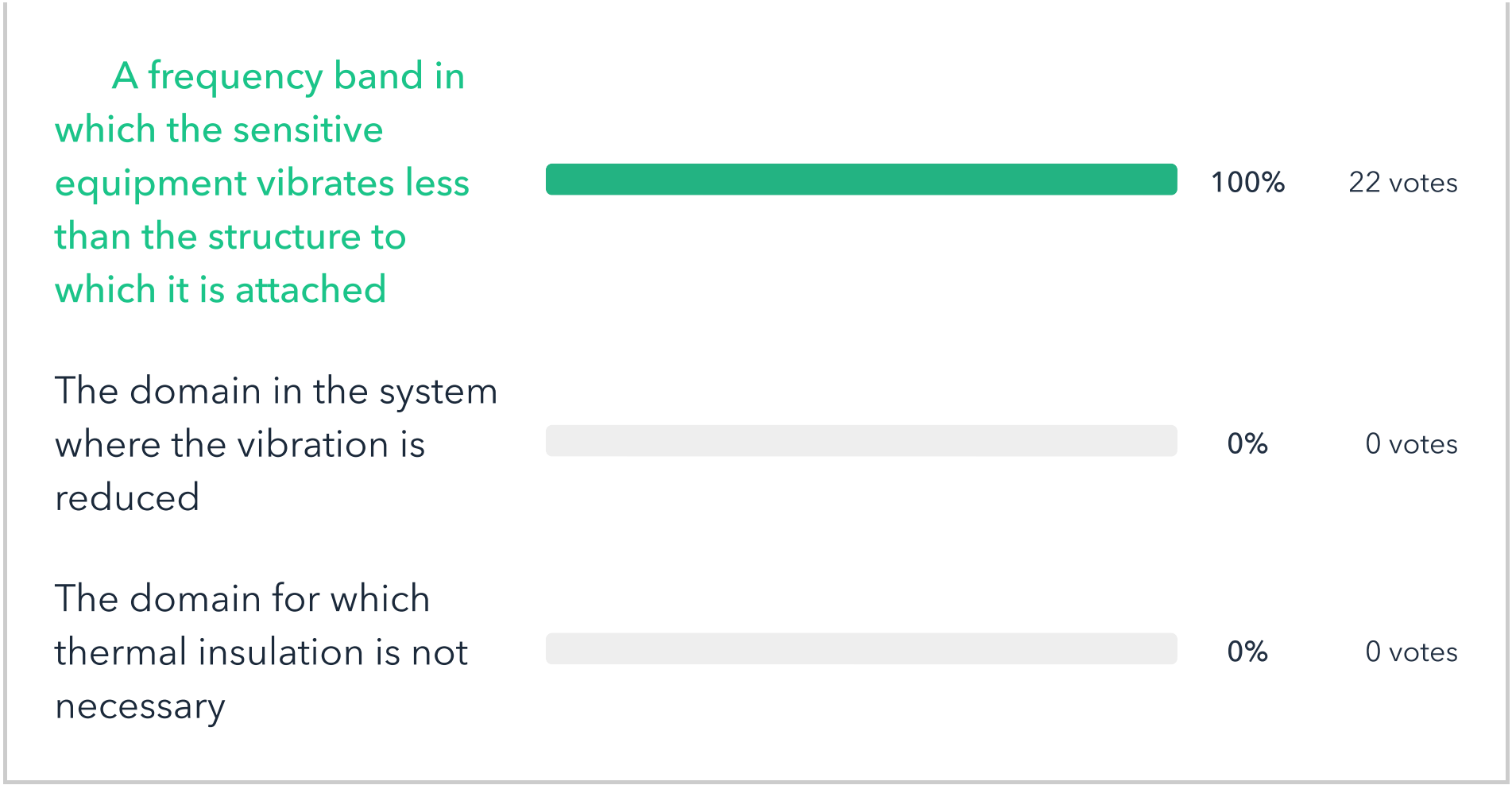
3

For the direct isolation problem, the isolation domain corresponds to


The location where the vibration is reduced in the system
8%
2 votes
The frequency band in which the force transmitted to the floor is lower than the applied disturbance force
64%
16 votes
The frequency band in which the vibration of the source is reduced
28%
7 votes

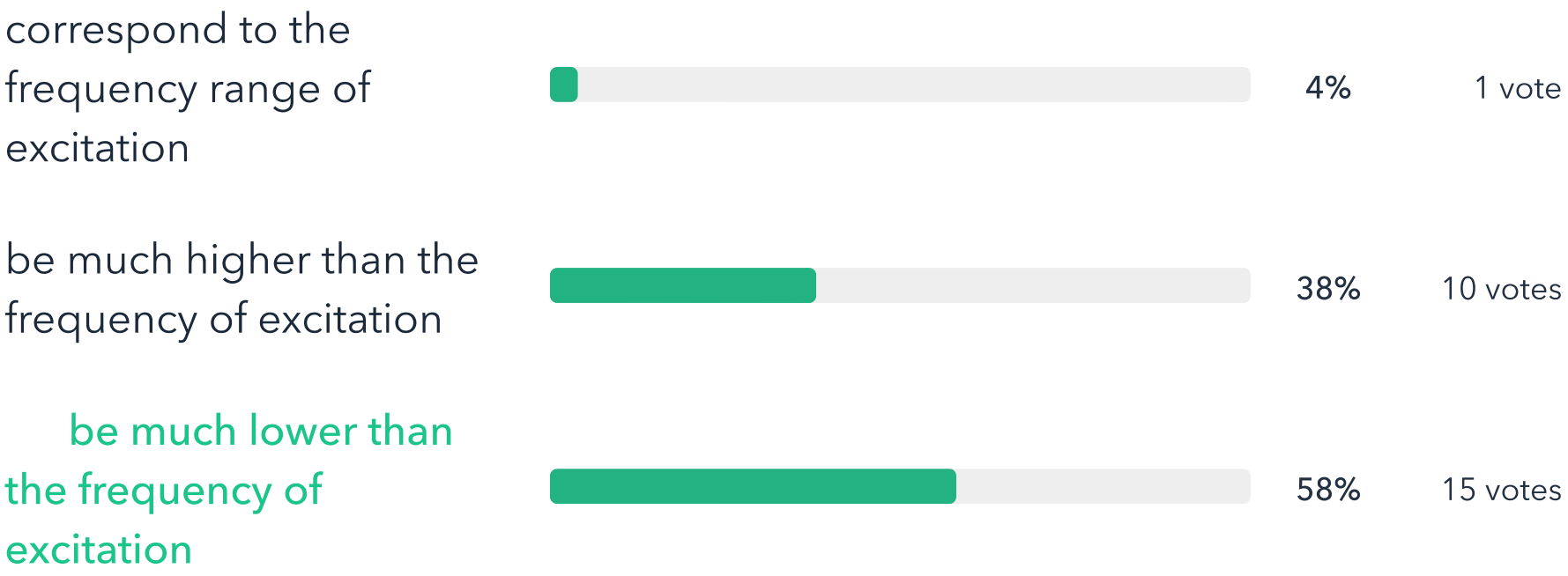
4

For the inverse vibration isolation problem, the isolation domain corresponds to


A frequency band in which the sensitive equipment vibrates less than the structure to which it is attached
100%
22 votes
The domain in the system where the vibration is reduced
0%
0 votes
The domain for which thermal insulation is not necessary
0%
0 votes

5

To achieve isolation, the natural frequency of the mass-spring system should



6

In order to increase the isolation domain, one can