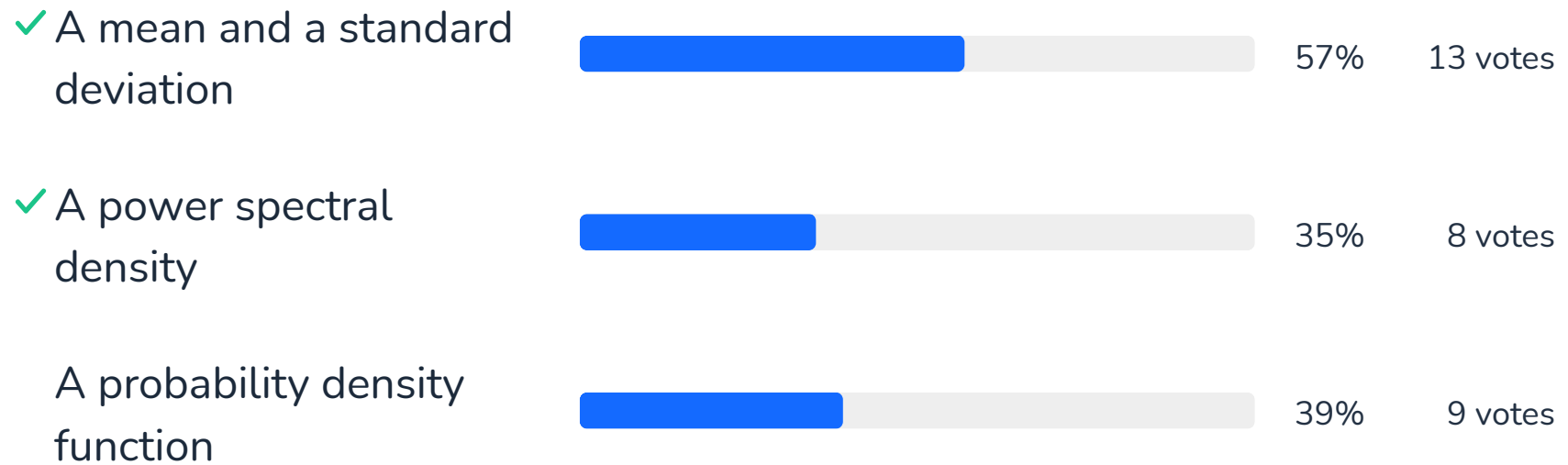


VIB2021 : Turbulent wind excitation

Number of participants: 39

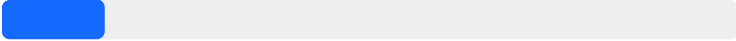
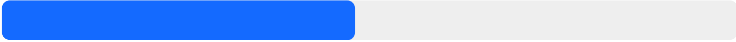
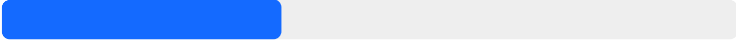
1

Assuming that the wind model is a stationary gaussian process, it is characterized by



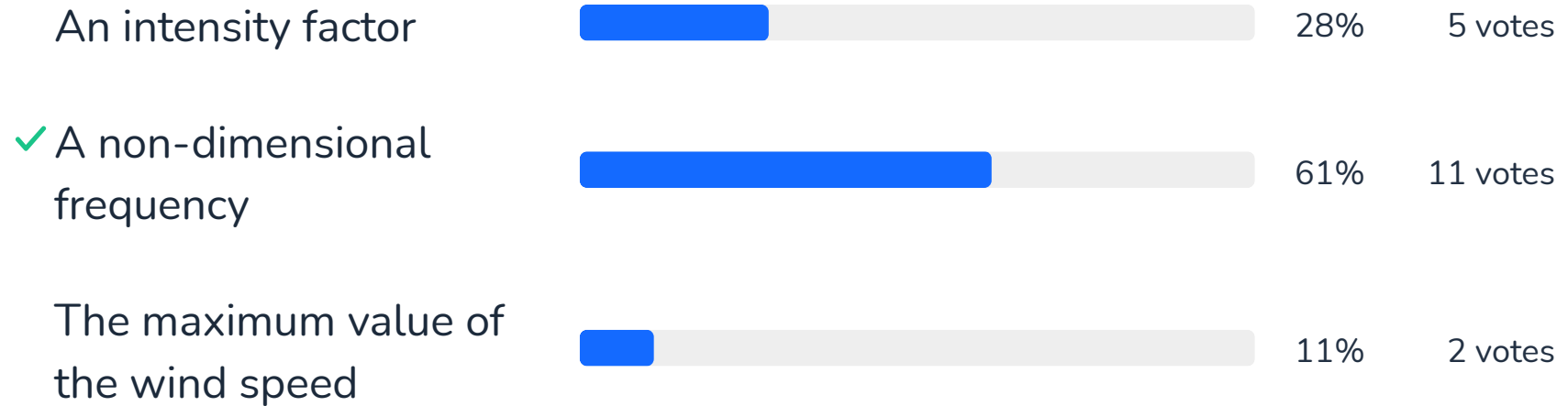
2

The standard deviation can be obtained knowing

The mean value		14%	3 votes
✓ The PSD		48%	10 votes
Both the mean value and the PSD		38%	8 votes

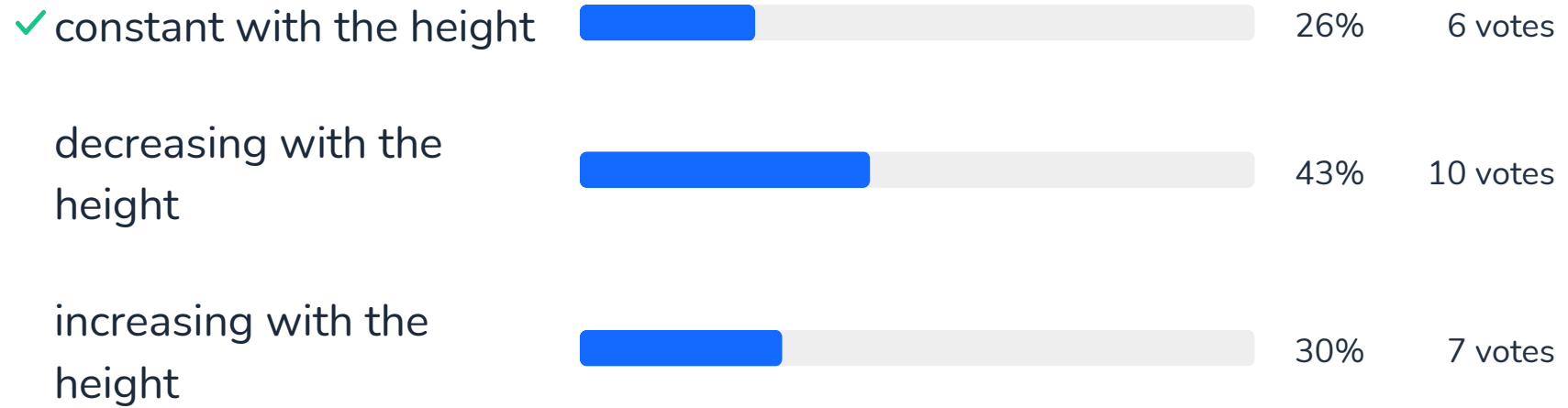
3

A wind spectrum is given as a function of



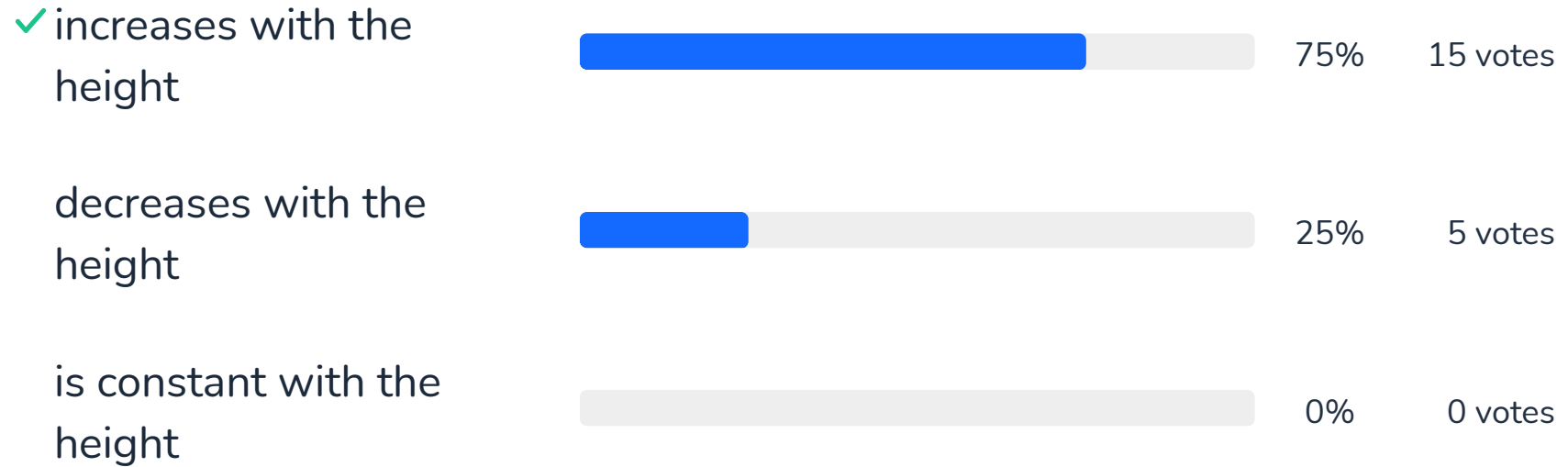
4

The turbulence is



5

The mean velocity



6

The aerodynamic admittance is a factor which

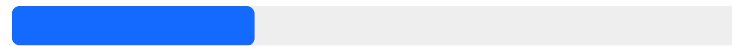
represents the dynamic flexibility of an object



67%

12 votes

✓ represents the total aerodynamic force acting on an object



33%

6 votes

✓ is larger for small objects

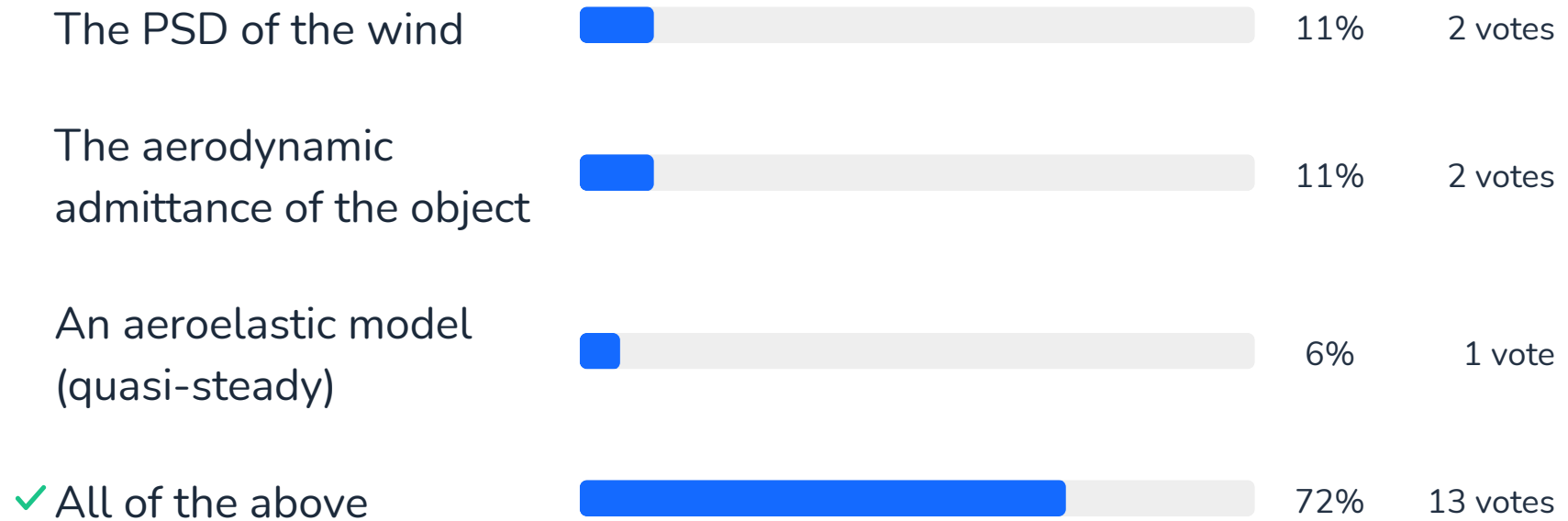


33%

6 votes

7

The dynamic force acting on an object due to turbulent flow requires to have access to



8

I have watched the video about turbulent
wind excitation

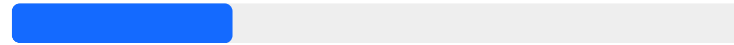
✓ Yes



70%

16 votes

No



30%

7 votes

