DOS2019_Continuous_Systems

Number of participants: 17

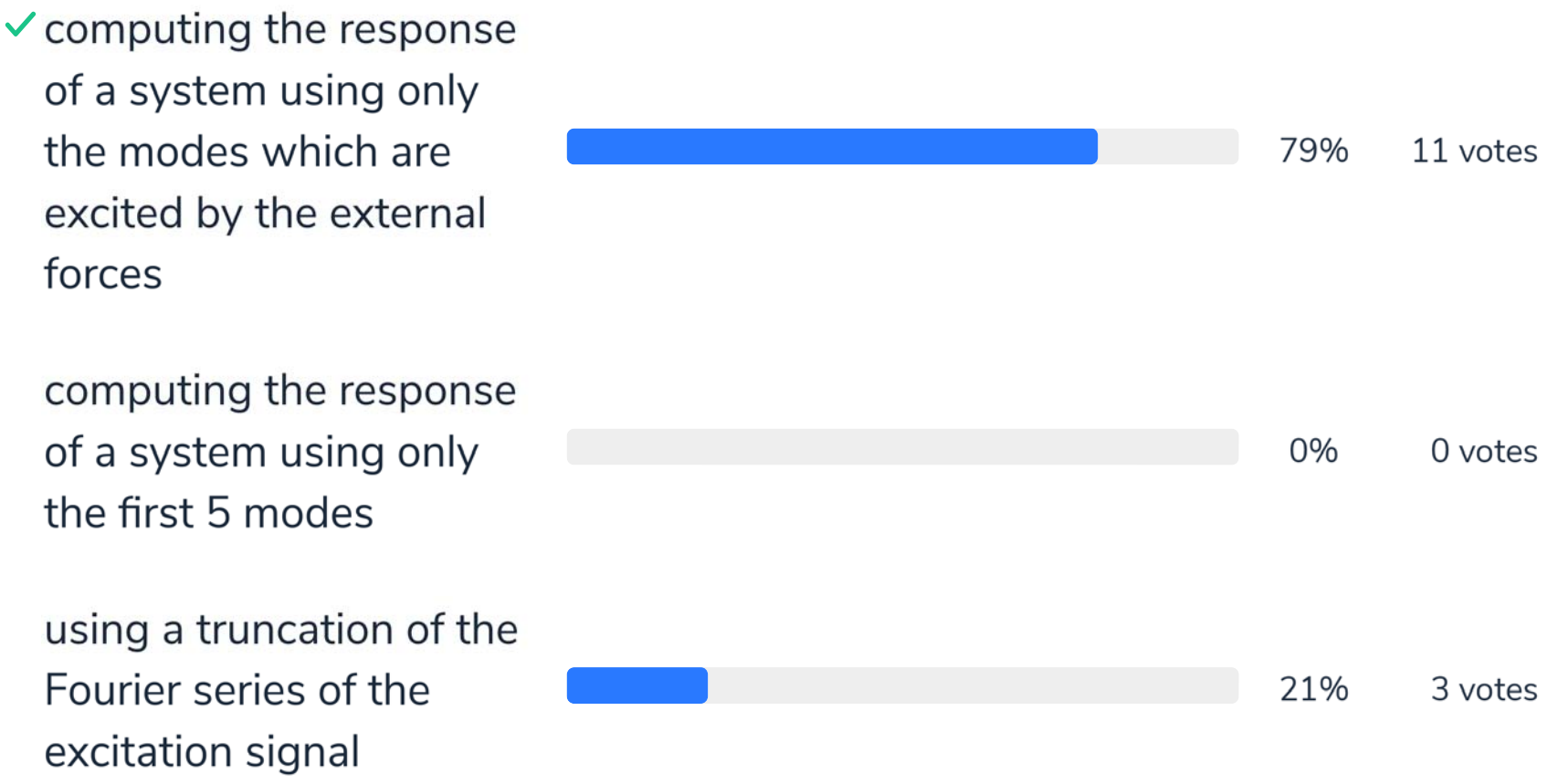
1

A continuous system has

as many eigenfrequencies as there are joints in the structure		7%	1 vote
✓ an infinite number of eigenfrequencies		93%	14 votes
it depends on the frequency band of the excitation signal		0%	0 votes

2

Modal truncation consists in



3

For footbridges, the dependency of the first natural frequency is proportional to

1/L^2 (L is the span)		29%	4 votes
1/L^3		29%	4 votes
✓ 1/L		43%	6 votes

4

In practice, the number of dofs in a finite element is usually dictated by

The dynamics of the system	0%	0 votes
✓ The geometry of the system	100%	14 votes
The frequency of excitation of the system	0%	0 votes

5

Hysteretic damping models can be used