

Music 170: Formulas for week 4

Formulas: The frequency of a vibrating string (from Rossing P. 63):

$$f = \frac{n}{2L} \sqrt{\frac{T}{\mu}}$$

where n is the number of the partial (1, 2, 3, \dots), L is the length of the string, T is the tension (in units of force), and μ is the linear density of the string (units of mass per distance).