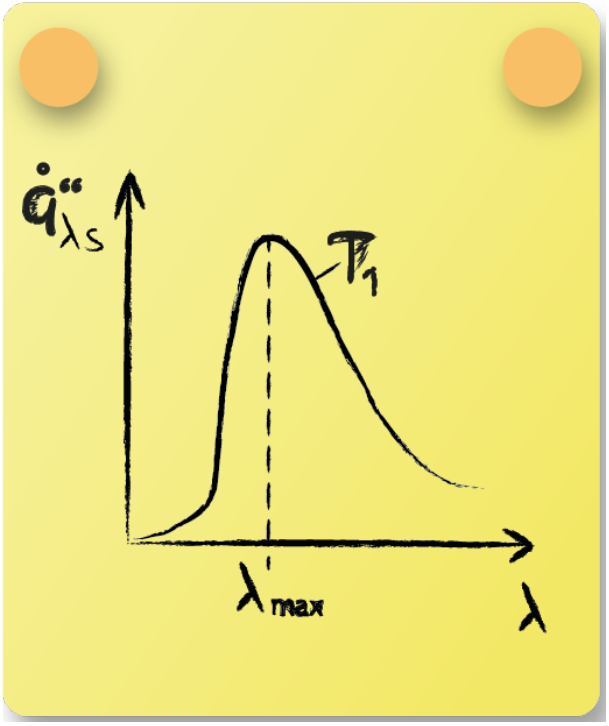
Fundamentals: Task 8



The graph represents planck's law which specifies the spectral electromagnetic radiation density of a black body at a certain temperature T_1.

A relation between wave length at maximum intensity and temperature is given by Wien's displacement law:

$$\lambda_{\max} = \frac{2898\,\mu\text{mK}}{T}$$

Solved for temperature this yields:

$$T = \frac{2898\,\mu\text{mK}}{\lambda_{\max}}$$