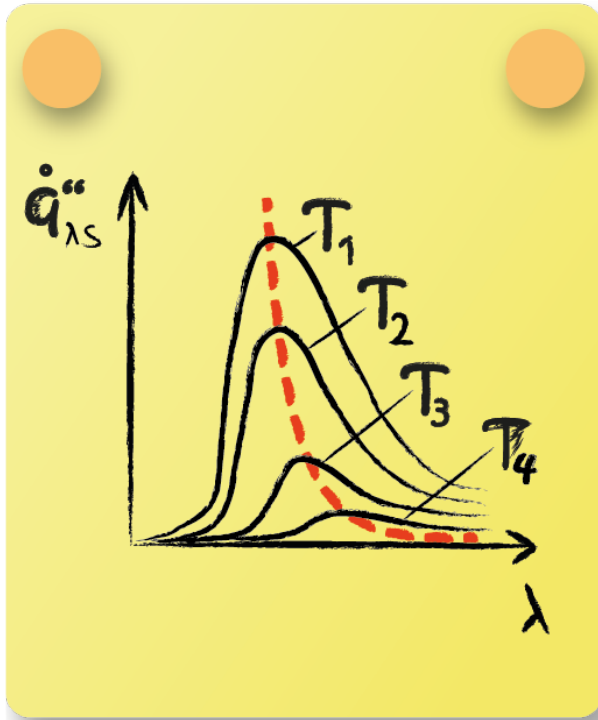


Fundamentals: Task 7



The diagram represents planck's law which specifies the spectral electromagnetic radiation density of a black body at a certain temperatures T_i .



According to Stefan-Boltzmann's law the integral increases for higher temperatures and wien's law states, that in this case the maximum spectral radiation density is located at shorter wave lengths. Either of the relations can be used to obtain the result:

$$T_1 > T_2 > T_3 > T_4$$