

$$A = \frac{1}{\sqrt{L}} \Rightarrow A = \frac{1}{\sqrt{100 \times 10^{-10} \text{ m}}} \Rightarrow A = \frac{1}{10 \times 10^{-5} \sqrt{\text{m}}} = 10^4 \frac{1}{\sqrt{\text{m}}}$$

$$L = 100 \times 10^{-10} \text{ m}$$

in Meter

$$A = \frac{1}{\sqrt{L}} \rightarrow A = \frac{1}{\sqrt{100 \text{ \AA}}} \rightarrow A = \frac{1}{10 \sqrt{\text{Å}}} = 10^{-1} \frac{1}{\sqrt{\text{Å}}}$$

$$L = 100 \text{ Å}$$

in Angstrom

to convert from Meter to Angstrom:

$$A = L \cdot \frac{1}{\sqrt{\text{m}}} \Rightarrow L \cdot \frac{1}{\sqrt{\text{m}}} \cdot \frac{\sqrt{10^{10} \text{ Å}}}{\sqrt{10^{10} \text{ Å}}} \Rightarrow A = L \cdot \frac{1}{\sqrt{10^{10} \cdot \sqrt{\text{Å}}}} \Rightarrow A = \frac{L}{10^5 \cdot \sqrt{\text{Å}}}$$

We have to divide by 10^{+5}

$$A = \frac{L \cdot 10^{-5}}{\sqrt{\text{Å}}}$$

to Convert from Angstrom to Meter:

$$A = L \cdot \frac{1}{\sqrt{\text{Å}}} \rightarrow A = \frac{L}{\sqrt{\text{Å}}} \cdot \frac{\sqrt{10^{10} \text{ m}}}{\sqrt{10^{10} \text{ m}}} \rightarrow A = \frac{L \times 10^5}{\sqrt{\text{m}}}$$

We have to Multiply by 10^{+5}