Astronomy Ranking Task: The Electromagnetic (EM) Spectrum

Exercise #3

Description: Listed below are the names of some of the regions of the electromagnetic spectrum with examples of typical values for λ .

A Typical λ (m) 1 × 10⁻²

50 × 10⁻⁹

Region of EM spectrum

A. microwaves

B. UV photons

C.	radio waves	1×10^3
D.	visible light	5500×10^{-10}
E.	infrared light	50 × 10 ⁻⁶
A. Ranking instructions: Rank the s	peeds of these regions of th	e EM spectrum.
Ranking Order: Fastest 12	3 4 5 _	Slowest
Or, all these regions of the EM spec	ctrum travel at the same spe	ed (indicate with a check mark)
Carefully explain your reasoning fo	or ranking this way:	
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B. Ranking instructions: Rank the e	nergies of these regions of t	the EM spectrum.
Ranking Order: Highest 1 2	35	Lowest
Or, all these regions of the EM spec	trum have the same energy	(indicate with a check mark)
Carefully explain your reasoning fo	or ranking this way:	