The Balmer Series



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Which quantum numbers give rise to the transitions in the Balmer series for hydrogen. The first four lines of the Balmer series are 656.5 nm, 486.3 nm, 434.2 nm and 410.3 nm. A. Provide the quantum numbers for the Balmer emission lines

Transition at 656.5 nm _	to
Transition at 486.3 nm _	to
Transition at 434.2 nm _	to
Transition at 410.3 nm _	to

B. Predict the wavelength of the next transition in the Balmer series.

Wavelength = _____