The star is moving towards us because the wavelength is less than its value when source is at rest.

\[ \frac{v}{c} = \frac{\Delta \lambda}{\lambda_0} \]

\[ \lambda_0 = 656 \text{ nm} \]

\[ \Delta \lambda = (656 - 652) \text{ nm} = 4 \text{ nm} \]

\[ c = 300,000 \text{ km/s} \]

\[ \frac{v}{300,000 \text{ km/s}} = \frac{4}{656} \Rightarrow \]

\[ v = \frac{4}{656} \times 300,000 \text{ km/s} \Rightarrow \]

\[ v = 1829 \text{ km/s} \]