$$\lambda_{\rm obs} \quad = \quad \lambda_{\rm source} \, \frac{\sqrt{1+\beta}}{\sqrt{1-\beta}}$$

$$\lambda_{\rm obs} \quad \simeq \quad \lambda_{\rm source} \, (1+\beta)$$

$$\text{velocity (km/s)} \quad = \quad H \ \text{distance (Mpc)}$$

$$z \quad = \quad \frac{\lambda_{\rm obs}}{\lambda_{\rm source}} \, - 1$$