

# Ionizing Photon Production Efficiency ion of LBGs at $z = 3.8 - 5.0$ :

## Implications for Cosmic Reionization

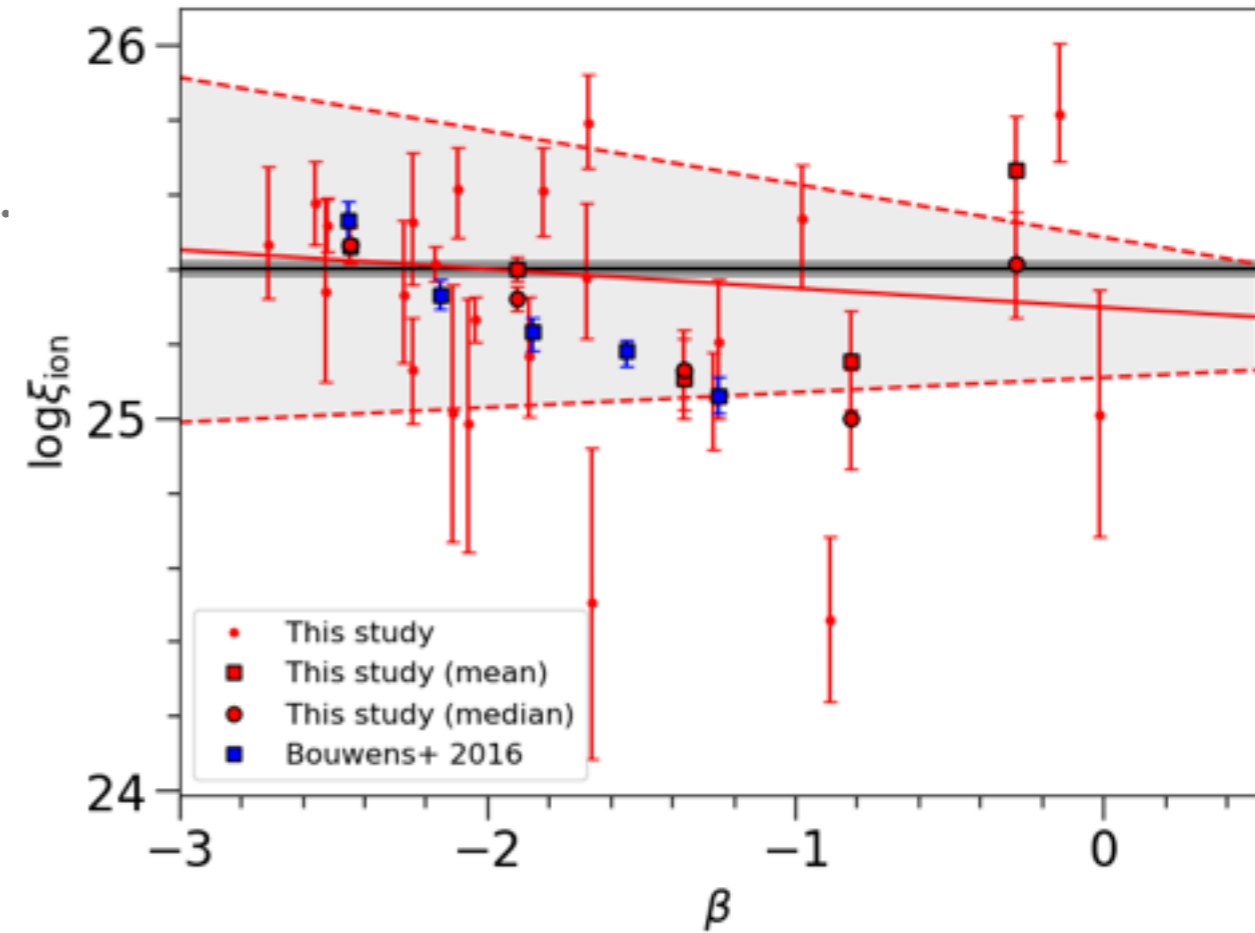
Source, history, topology?

$$\dot{n}_{\text{ion}} = f_{\text{esc}} \xi_{\text{ion}} \rho_{\text{UV}}$$

$$\xi_{\text{ion}} = \frac{N(\text{H}^0)}{L_{\text{UV}}} [\text{erg}^{-1} \text{Hz}]$$

$$N(\text{H}^0) [\text{s}^{-1}] = \frac{L(\text{H}\alpha) [\text{erg s}^{-1}]}{1.36 \times 10^{-12}}$$

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$z=3.8 - 5.0 \rightarrow \text{H}\alpha$  falls into *Spitzer/IRAC*  $3.6\mu\text{m}$

