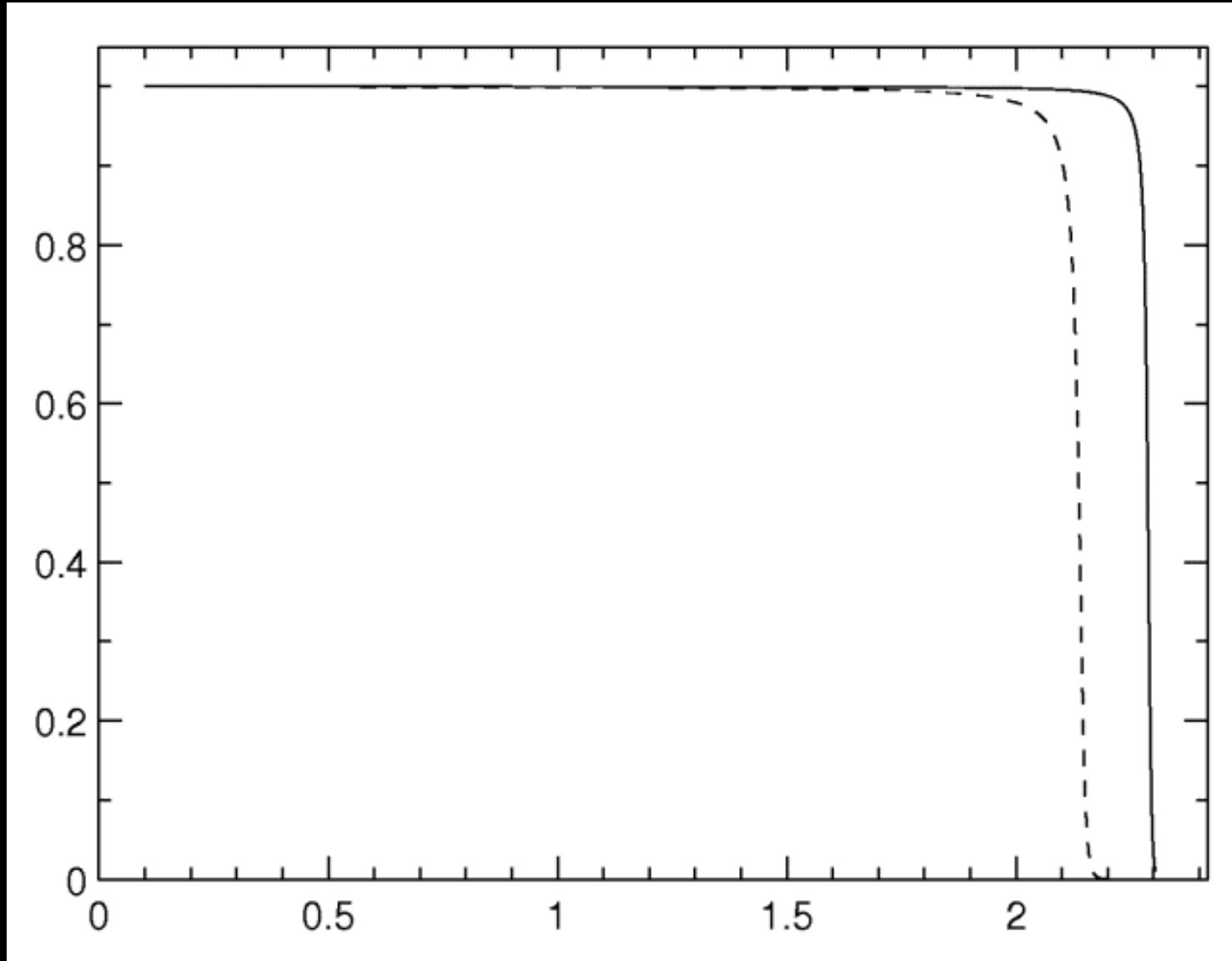


HII Region Ionization Structure

$$T_* = 40,000 \text{ K}, R_* = 10R_\odot, n_{\text{H}} = 100 \text{ cm}^{-3}, n_{\text{He}} = 10 \text{ cm}^{-3}$$

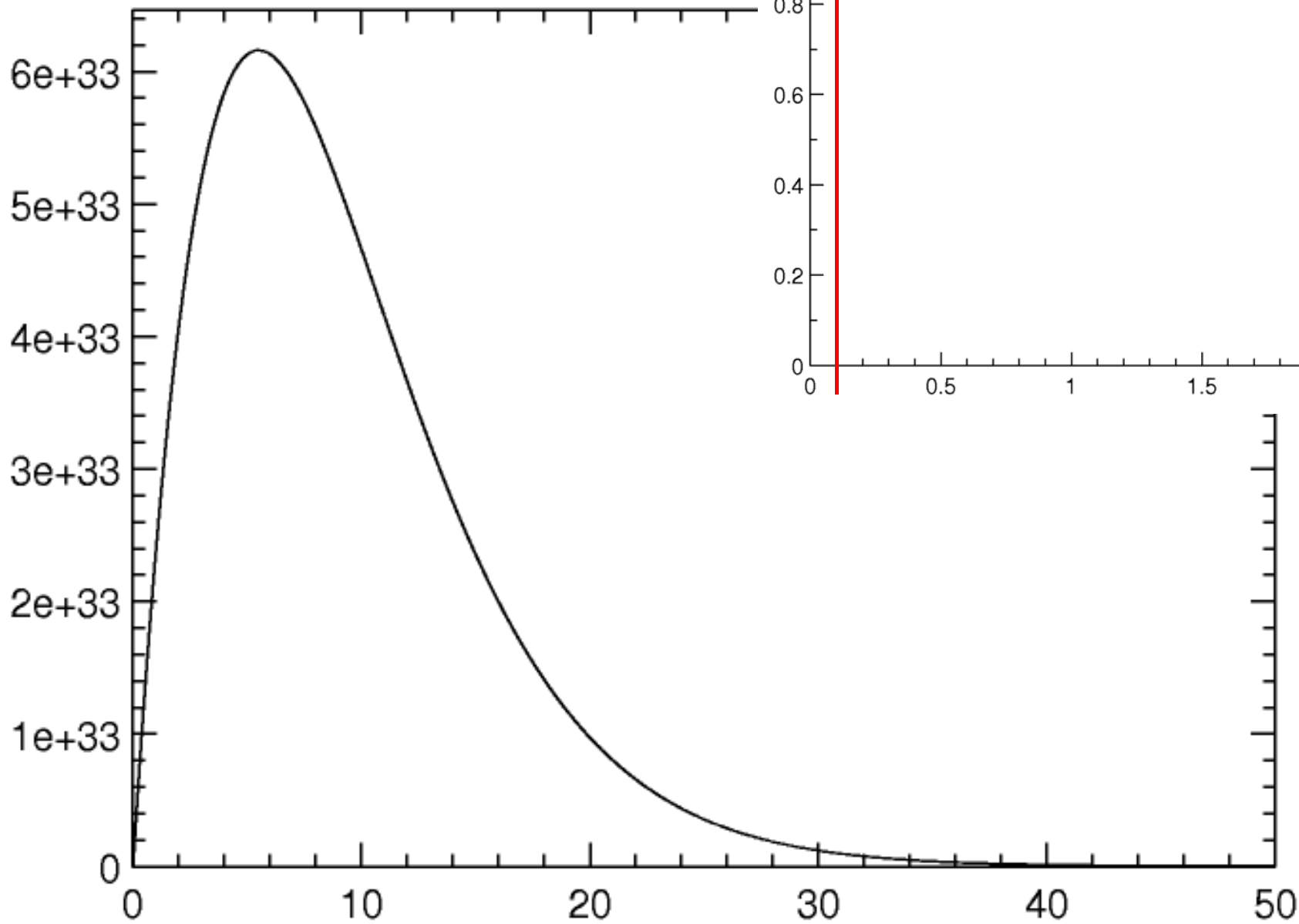
$n_{\text{HII}} / n_{\text{H}}$ (solid) or $n_{\text{HeII}} / n_{\text{He}}$ (dashed)



r (pc)

Initial spectrum ($r = 0.1$ pc)

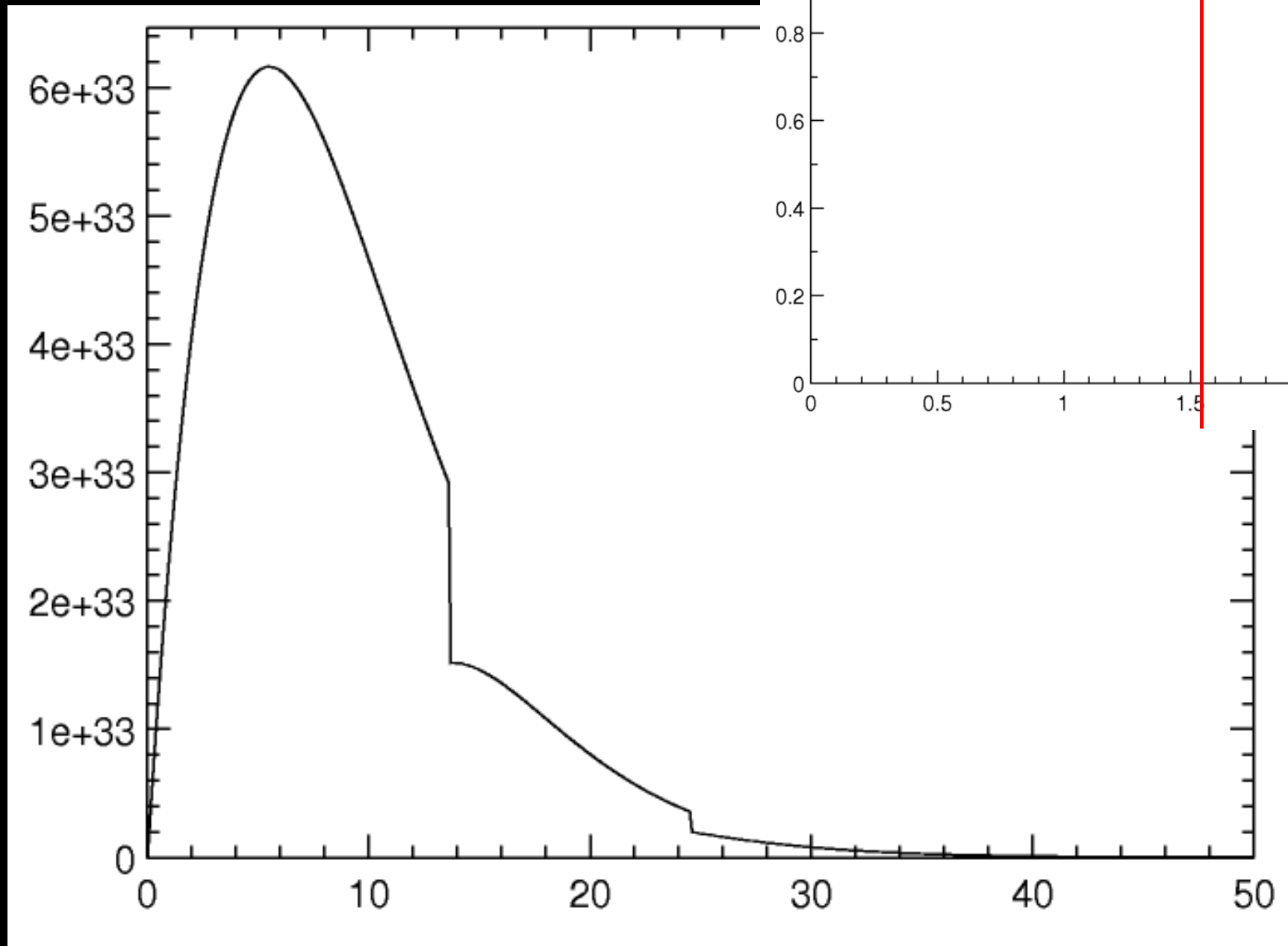
N_ν ($s^{-1} \text{ Hz}^{-1}$)



$h\nu$ (eV)

Spectrum at $r = 1.54$ pc

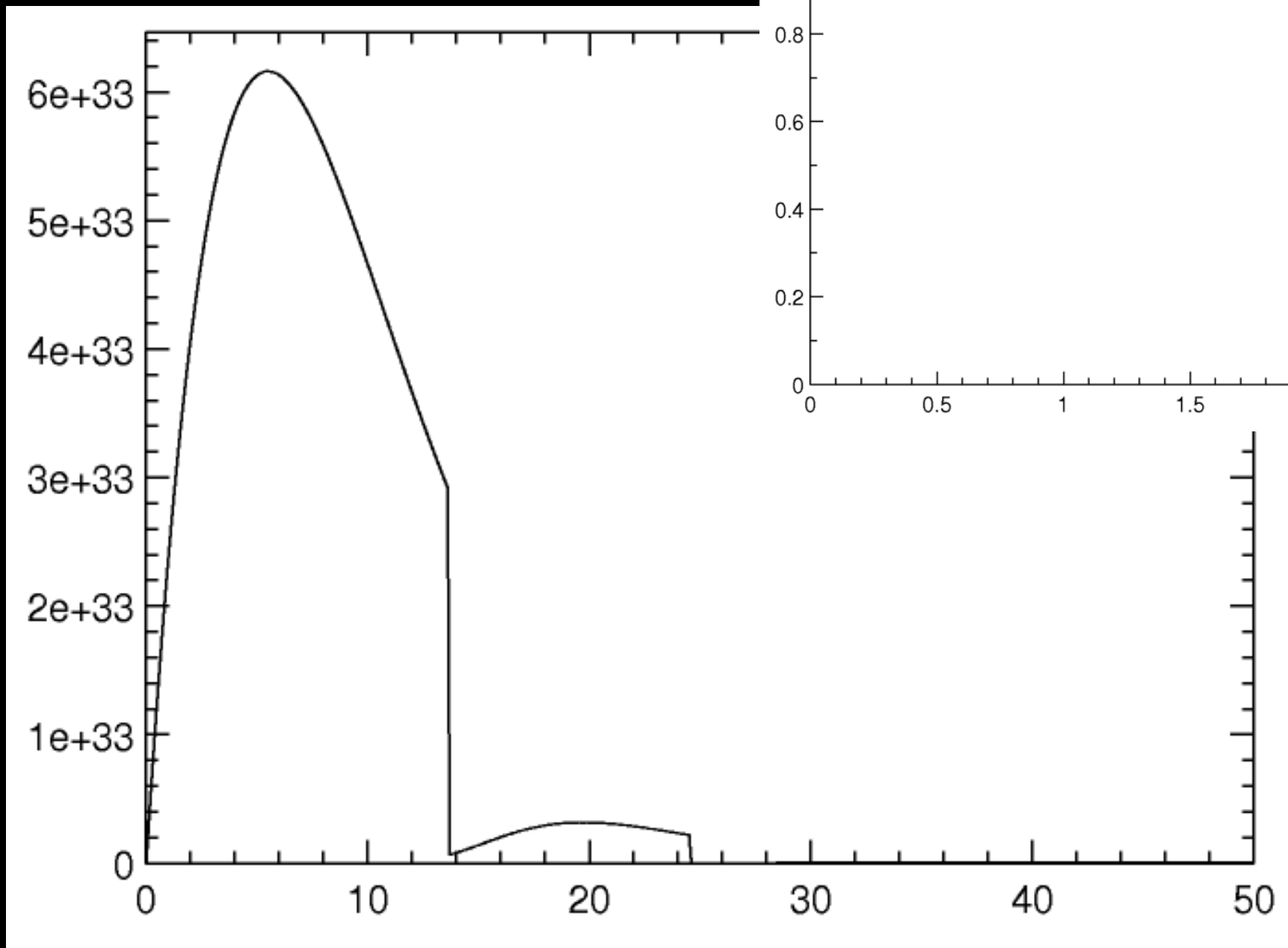
N_ν ($s^{-1} \text{ Hz}^{-1}$)



$h\nu$ (eV)

Spectrum at $r = 2.14$ pc ($f_{\text{HeII}} \simeq 0.5$)

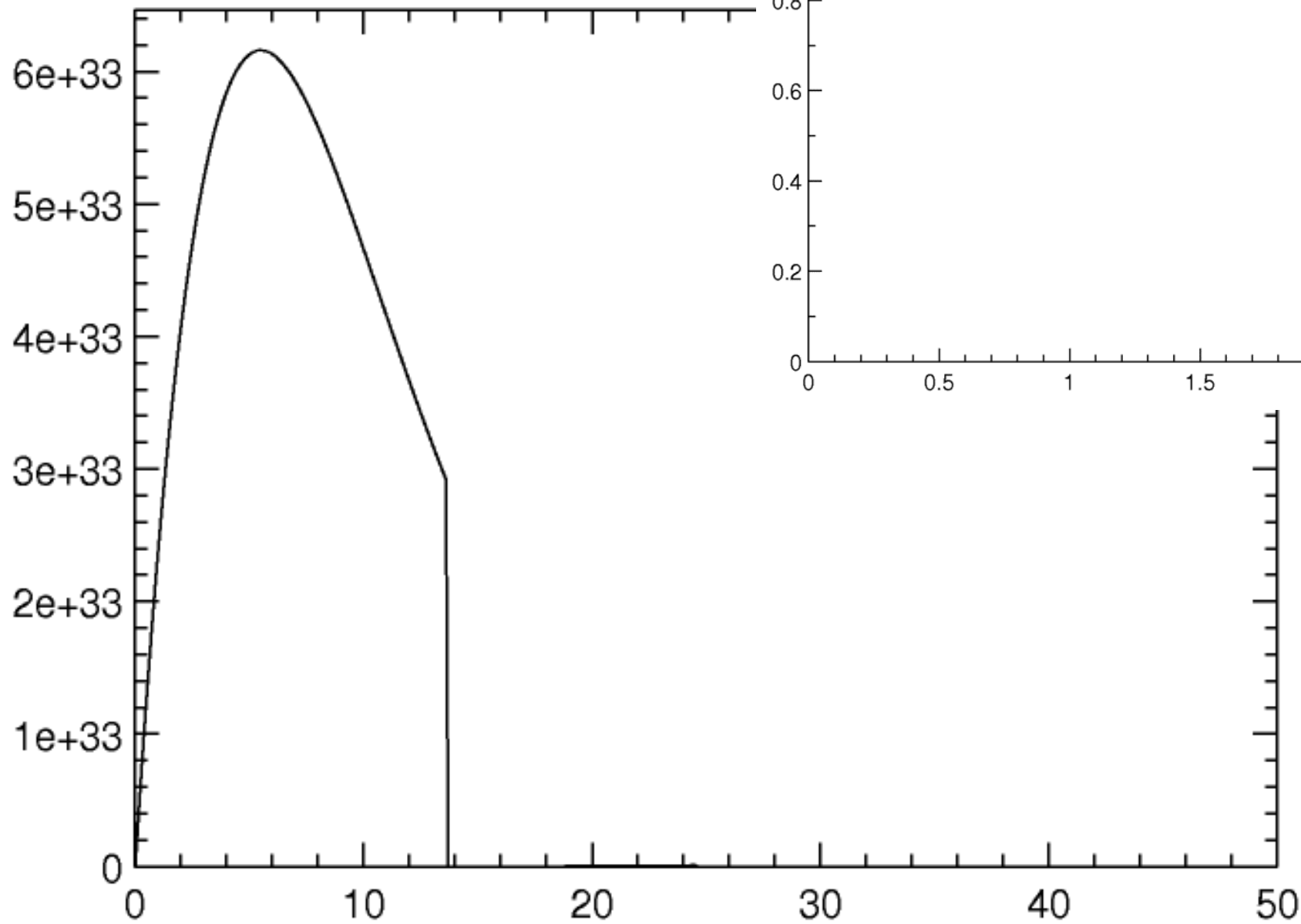
N_ν ($\text{s}^{-1} \text{ Hz}^{-1}$)



$h\nu$ (eV)

Spectrum at $r = 2.29$ pc ($f_{\text{HII}} \simeq 0.5$)

N_ν ($\text{s}^{-1} \text{Hz}^{-1}$)

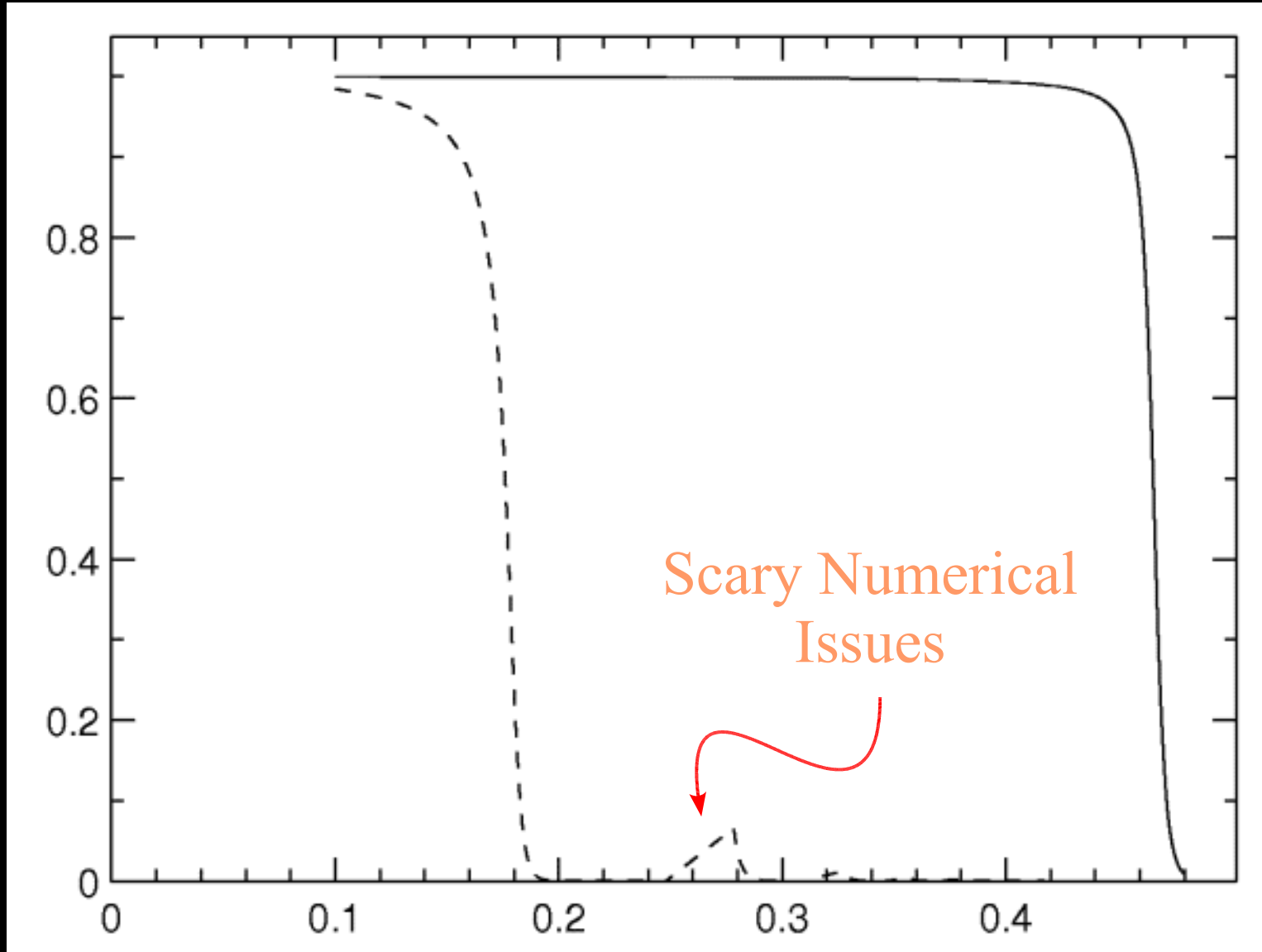


$h\nu$ (eV)

HII Region Ionization Structure

$$T_* = 20,000 \text{ K}, R_* = 10R_\odot, n_{\text{H}} = 100 \text{ cm}^{-3}, n_{\text{He}} = 10 \text{ cm}^{-3}$$

$n_{\text{HIII}} / n_{\text{H}}$ (solid) or $n_{\text{HeII}} / n_{\text{He}}$ (dashed)



r (pc)