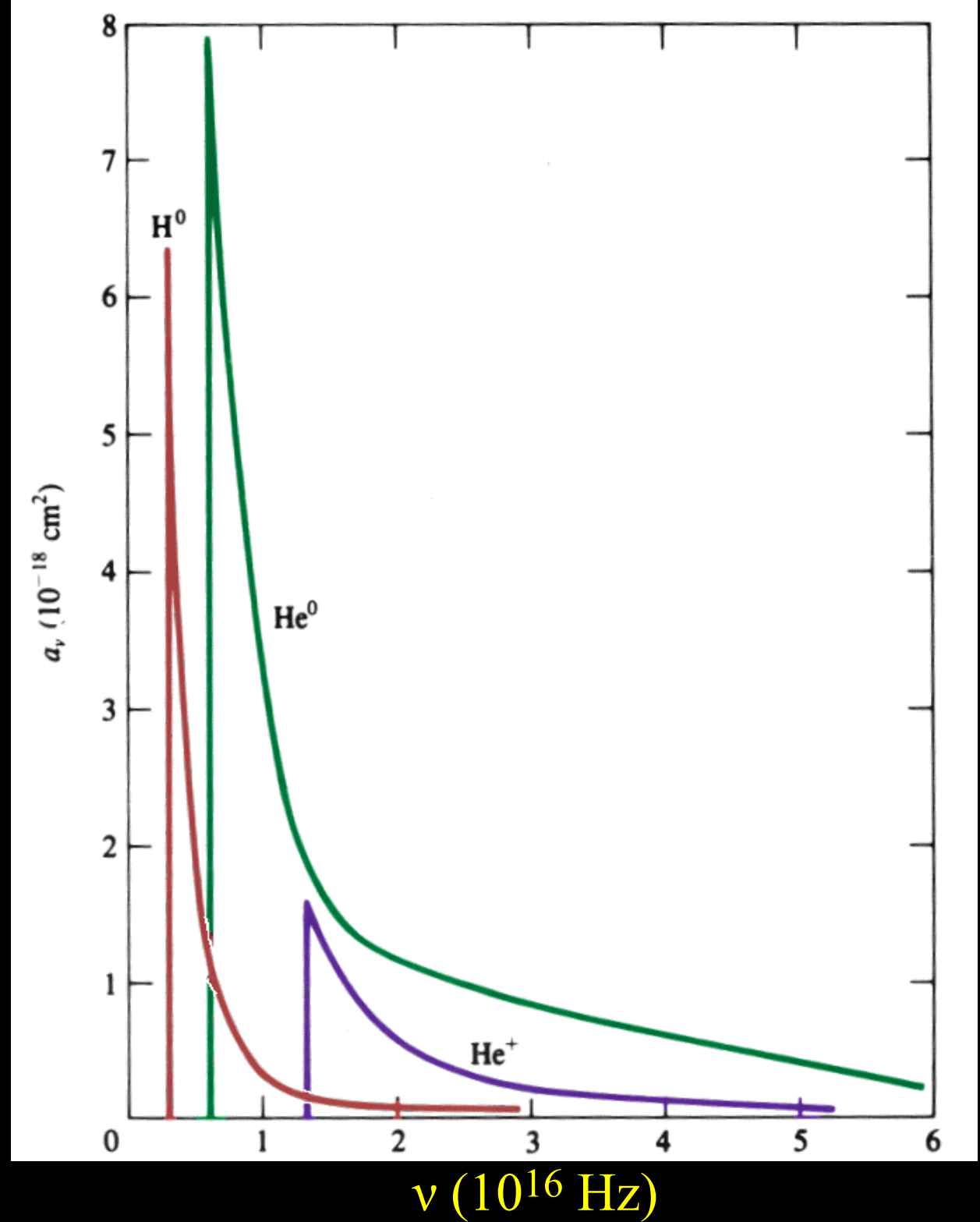
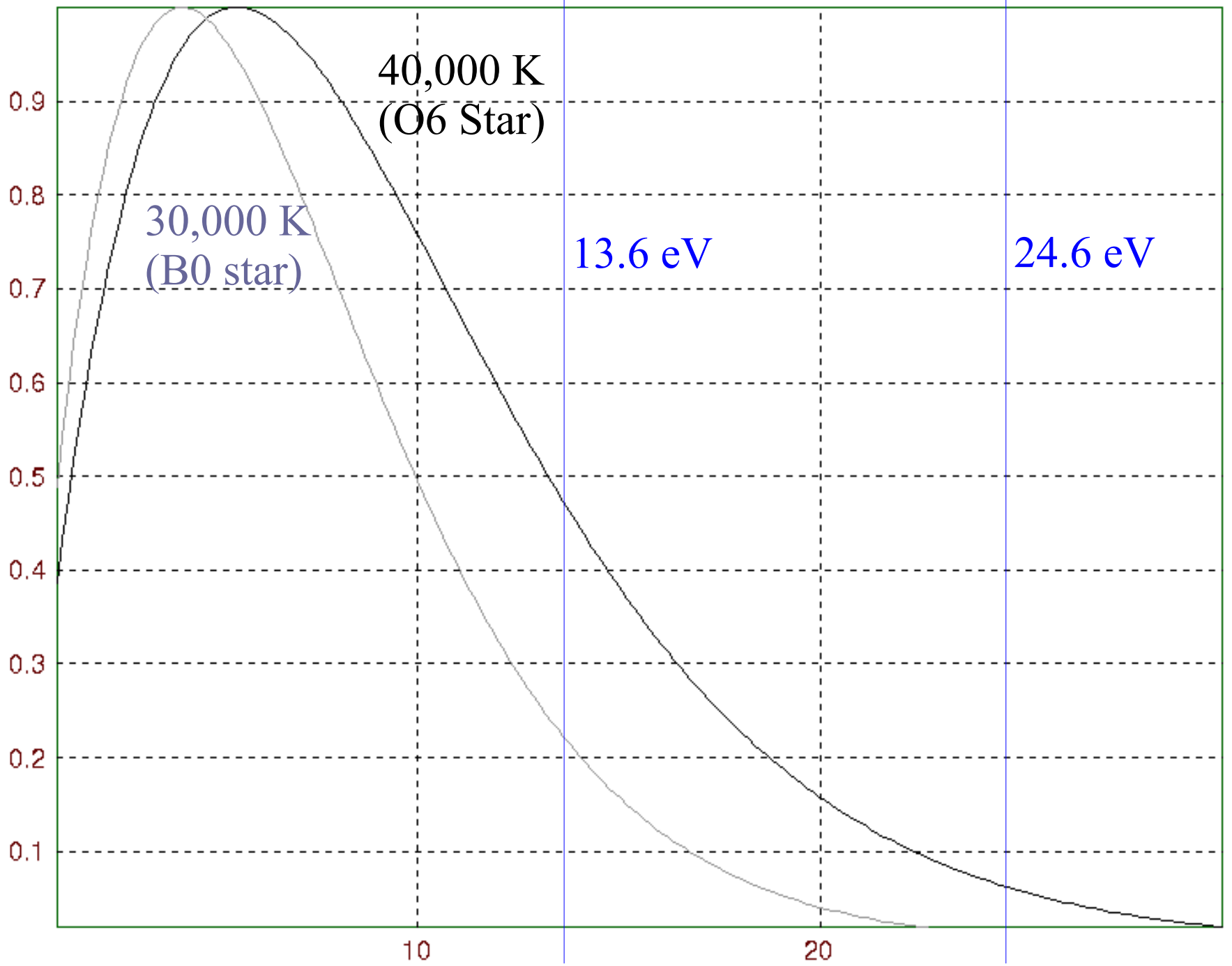


# Ionization Cross-Sections

(Osterbrock Fig. 2.2)



$B_\nu / h\nu$  (normalized)



$E_\gamma / h$  (eV)

T (K)	$N \text{ cm}^{-2} \text{ s}^{-1}$ (total)	$N \text{ cm}^{-2} \text{ s}^{-1}$ ( $>13.6 \text{ eV}$ )	$N \text{ cm}^{-2} \text{ s}^{-1}$ ( $>24.6 \text{ eV}$ )
40,000	$1.3 \times 10^{10}$	$2.6 \times 10^9$	$2.9 \times 10^8$
30,000	$5.4 \times 10^9$	$4.7 \times 10^8$	$1.8 \times 10^7$
20,000	$1.6 \times 10^9$	$2.0 \times 10^7$	$9.9 \times 10^4$
10,000	$2.0 \times 10^8$	$3.3 \times 10^3$	$2.9 \times 10^{-2}$
6,000	$4.2 \times 10^7$	$5.0 \times 10^{-2}$	$9.4 \times 10^{-11}$

# Ionization Potentials

HI – HII : 13.6eV

HeI – HeII : 24.6eV

HeII – HeIII : 54.4eV

OI – OII : 13.6 eV

OII – OIII : 35.1 eV

OIII – OIV : 54.9 eV

CI – CII : 11.3 eV

CII – CIII : 24.4 eV

CIII – CIV : 47.9 eV

NI – NII : 14.5 eV

NII – NIII : 29.6eV

NIII – NIV : 47.4 eV

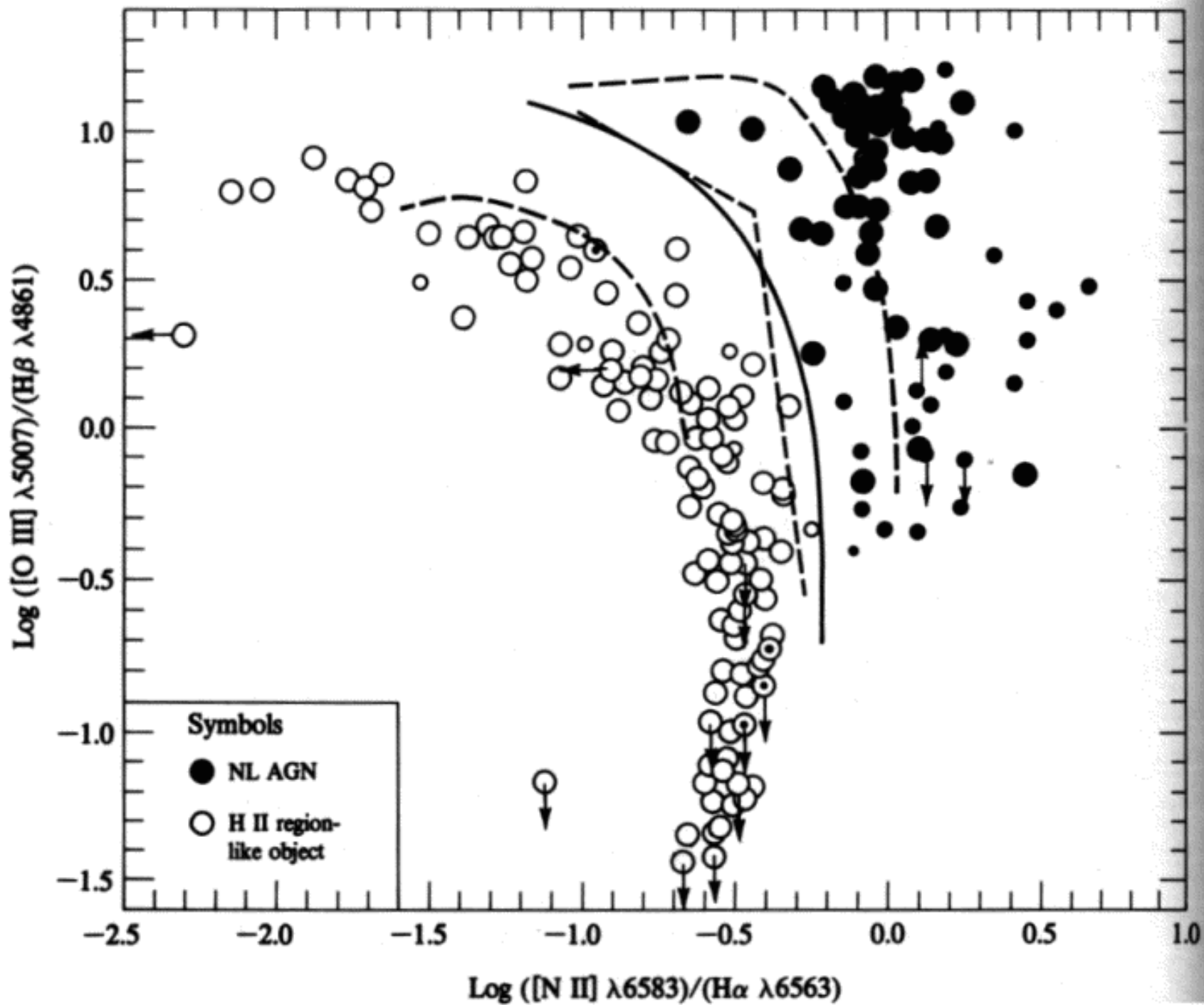
SI – SII : 10.4 eV

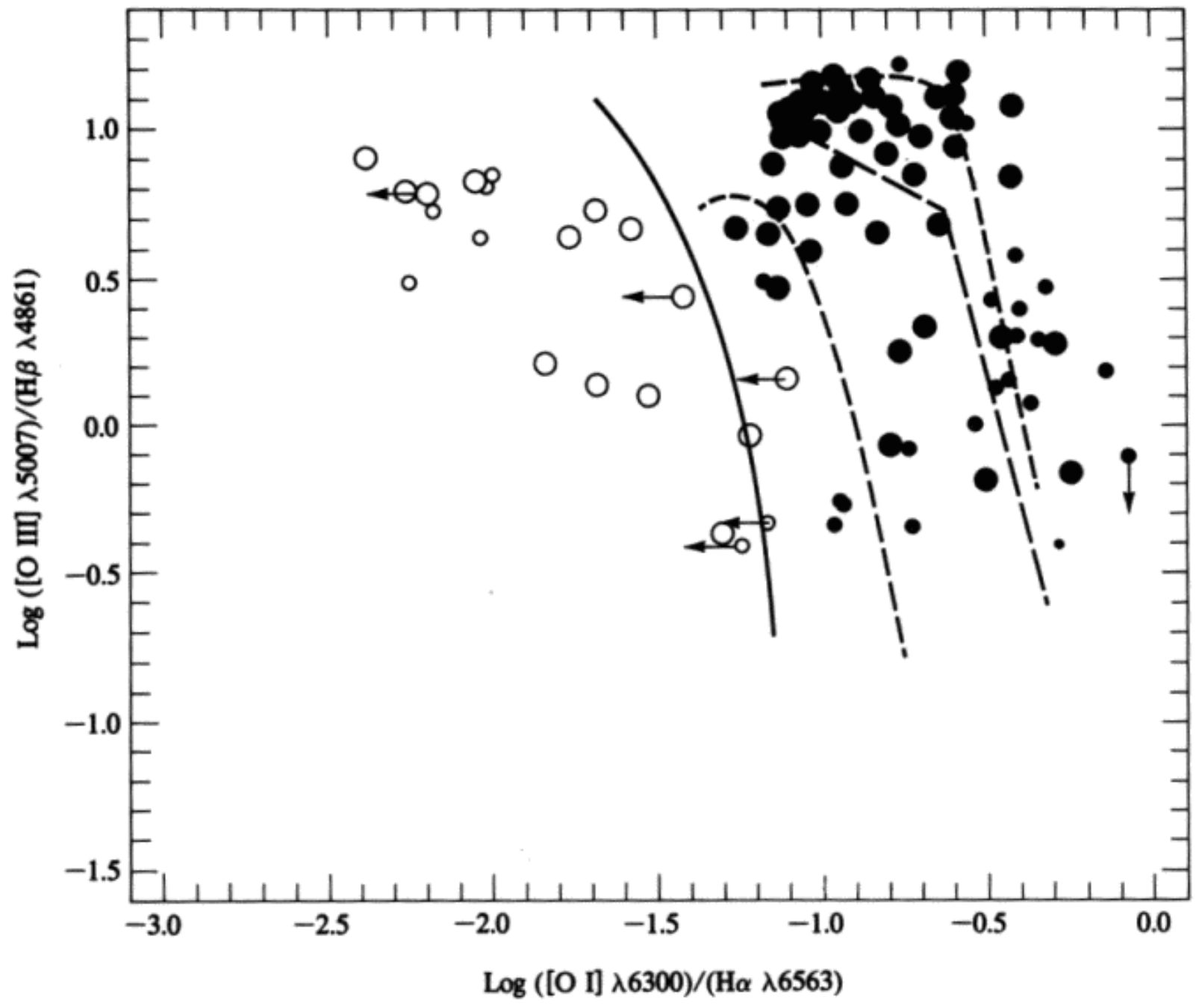
SII – SIII : 23.3 eV

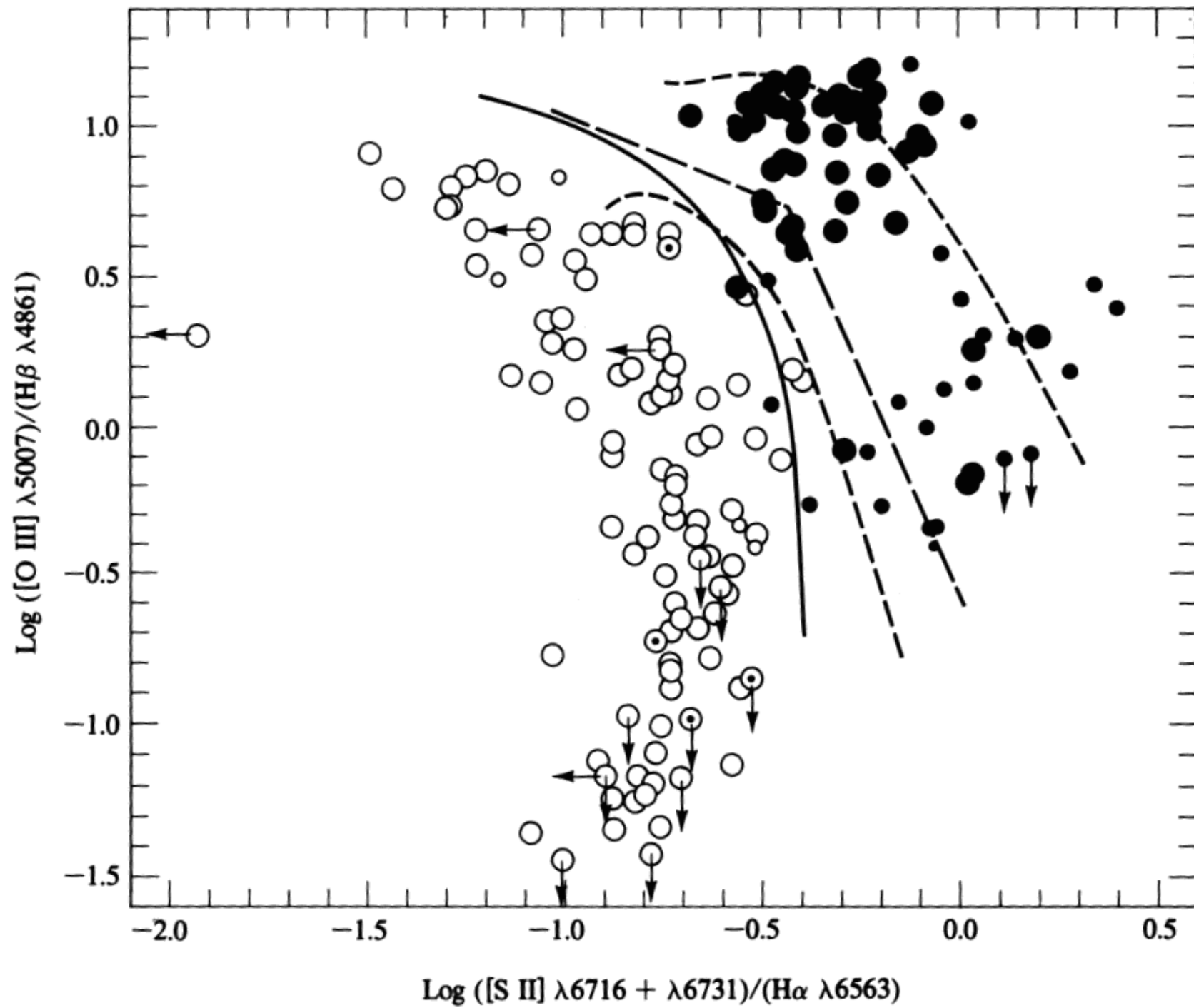
SIII – SIV : 34.8 eV

NeI – NeII : 21.6 eV

NeII – Ne III : 41.0 eV









# Seyfert 2 Galaxy NGC 7130

