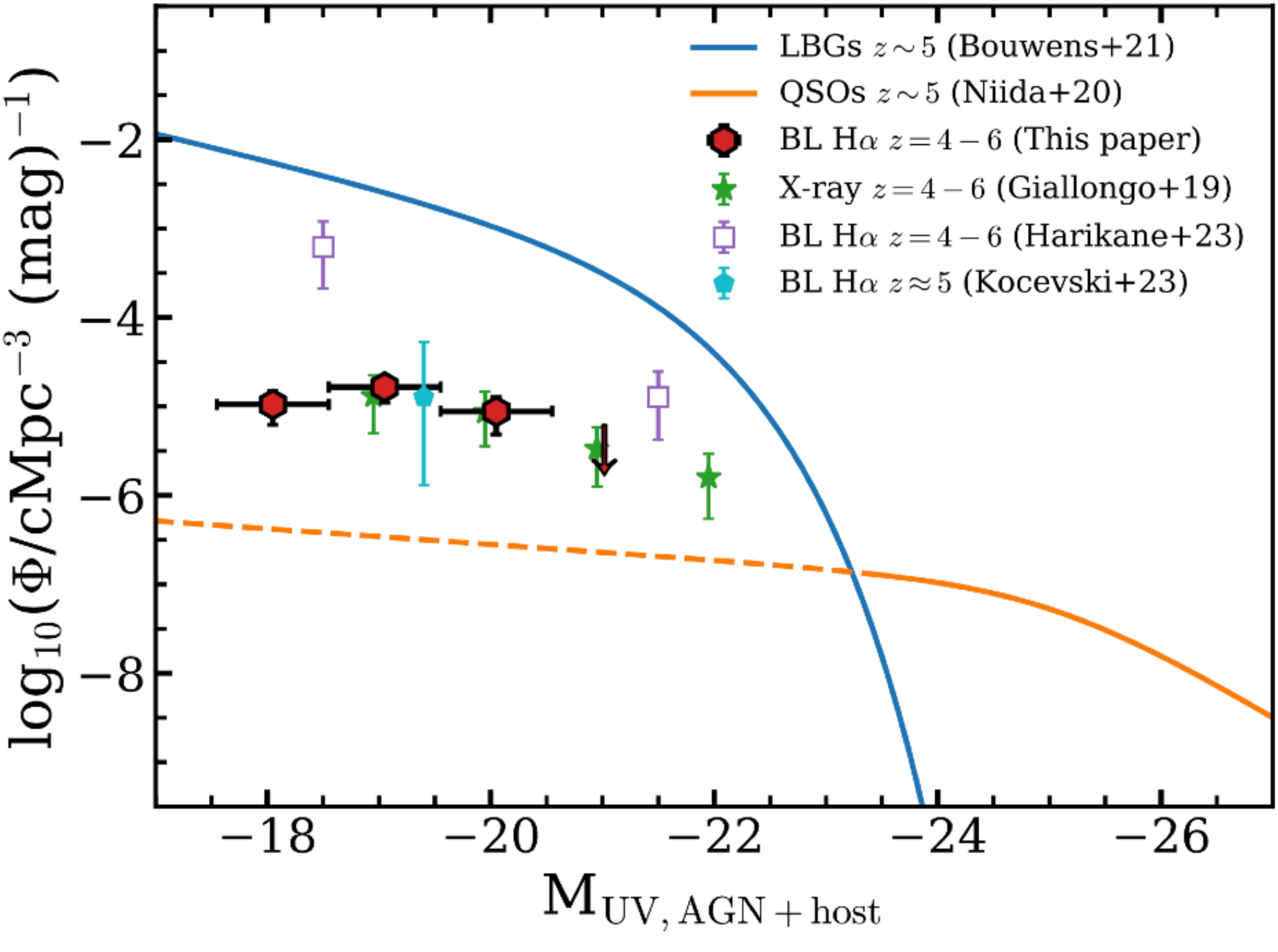
- low fraction of AGN


LBGs $z\sim5$ (Bouwens+21)
QSOs $z\sim5$ (Niida+20)
BL Hα $z=4-6$ (This paper)
X-ray $z=4-6$ (Giallongo+19)
BL Hα $z=4-6$ (Harikane+23)
BL Hα $z\approx5$ (Kocevski+23)
$\log_{10}(\Phi/\mathrm{cMpc}^{-3}\ (\mathrm{mag})^{-1})$
−2
−4
−6
−8
−18
−20
−22
−24
−26
$M_{\mathrm{UV,\,AGN+host}}$


Galaxy

Bright Quasar

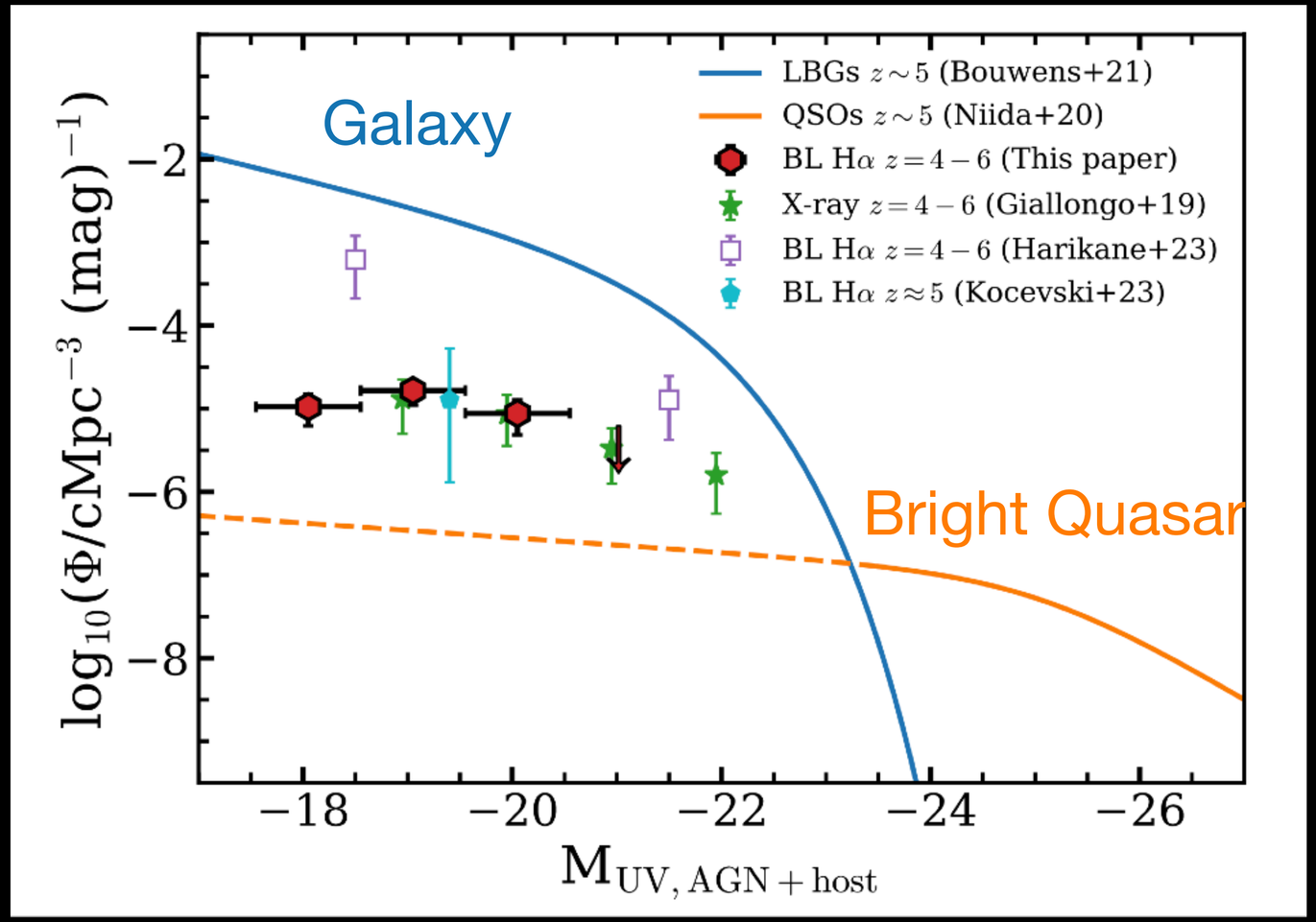
- similar to estimation & X-ray sources

- a factor ten higher than quasar UV LF

- significantly lower than Harikane+23

Number Density / Luminosity Function

with detectable volume scaled



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$$\Phi(M) = \frac{1}{\Delta M} \sum_i \frac{1}{V_{\max,i}}$$

- low fraction of AGN
- a factor ten higher than quasar UV LF
- similar to estimation & X-ray sources
- significantly lower than Harikane+23

Ha Luminosity Function