(f)Quasar Luminosity Functions in Host Halo Mass bins

Legend:
- All SMBHs
- $11 < \log M_{\mathrm{peak}} < 12$
- $12 < \log M_{\mathrm{peak}} < 13$
- $13 < \log M_{\mathrm{peak}} < 14$
- $14 < \log M_{\mathrm{peak}} < 15$

z=3.0

Number Density [Mpc^{-3} dex^{-1}]

Bolometric Luminosity [ergs s^{-1}]