

number of planets per star

- $\Lambda_a(r_a), Z_2/Z_0=1.0$
- $\Lambda_a(r_a), Z_2/Z_0=0.5$
- $\Lambda_a(r_a), Z_2/Z_0=0.0$
- $\Lambda_0(r)$

with $r > 8.0 R_\oplus$,
single $\Lambda_{\text{HJ_true}}$: 0.4993 planets per star
 $\Lambda_{\text{HJ_inferred}}$: 0.5947 planets per star
true(single)/inferred: 0.84.

Integrated over all r ,
single Λ_{true} : 0.500 planets per star
 $\Lambda_{\text{inferred}}$: 0.623 planets per star
true(single)/inferred: 0.80.

0.00

0.01

0.02

0.03

0.04

0

5

10

15

20

planet radius [r_\oplus]