Synthetic planets runaway GH case C no runaway GH case A 10<sup>2</sup>  $10^{1}$ Orbital period [d]  $H_{\text{rgh}}$ synthetic planets transiting  $H_0$ (average) radius [R<sub>⊕</sub>] 1.0 1000 100  $S_{\text{thresh}}$ Instellation [W/m<sup>2</sup>]