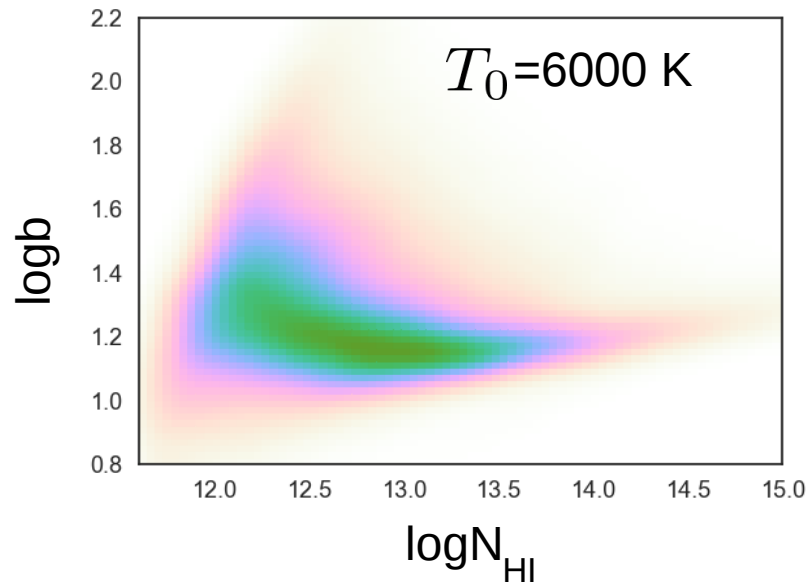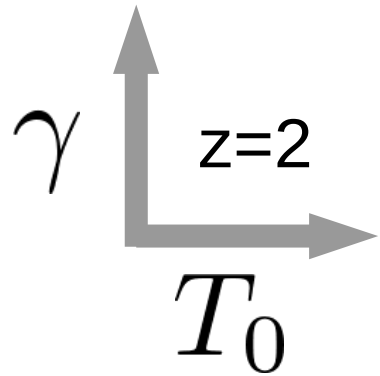# Hector Hiss (MPIA Heidelberg Germany)

J. Hennawi (UCSB), M. Walther (UCSB, MPIA), J. Oñorbe (IfA)

Lyman-α forest absorption line statistics

↳ Thermal sensitivity of *logb* vs *logN*$_{HI}$

γ

z=2

T_0

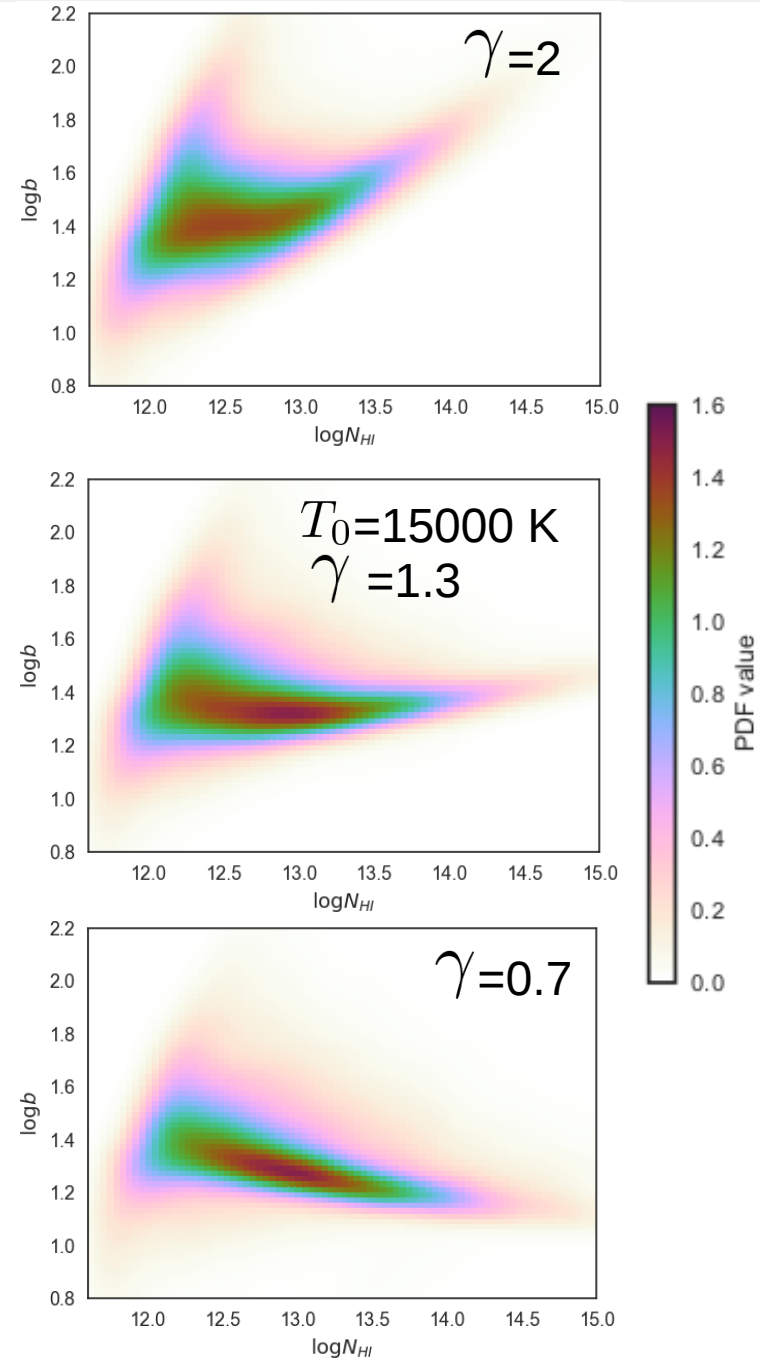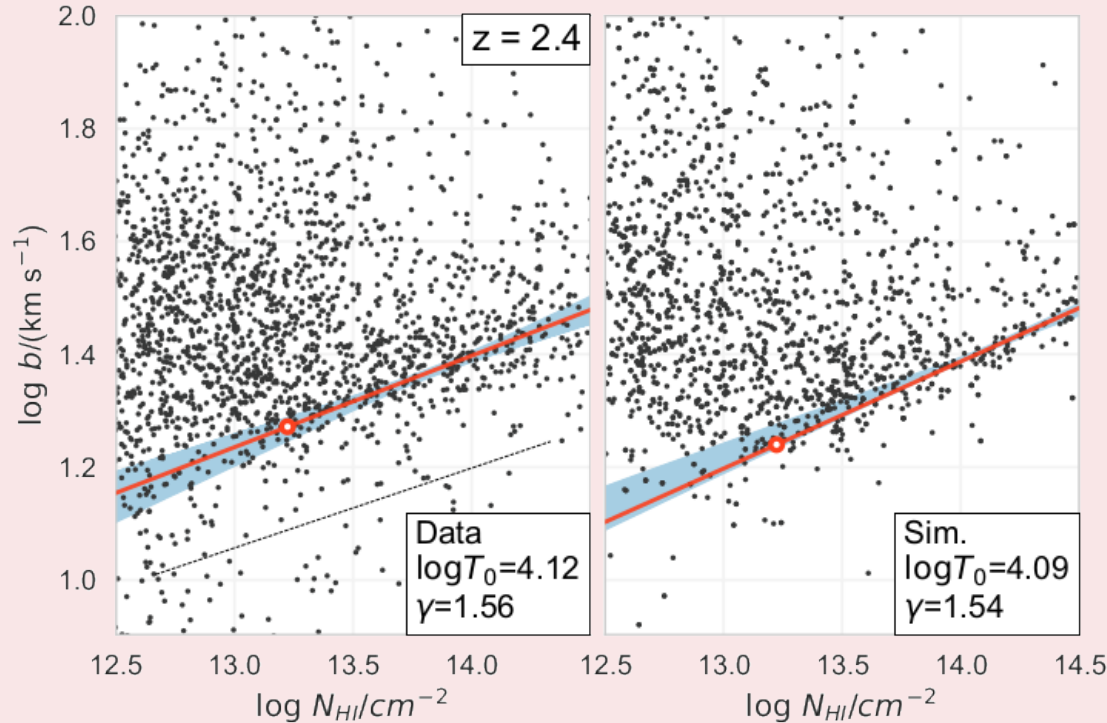$$T = T_0 \left(\frac{\rho}{\rho_0} \right)^{\gamma - 1}$$

Hector Hiss (MPIA Heidelberg Germany)

Traditional Method
Cutoff Fitting

*Hiss et al.18 submitted
Schaye et al. 1999, Ricotti et al. 2000,
McDonald et al 2001, Rudie et al 2012, Bolton
et al 2014, Rorai et al 2018*

New Method
Whole bN distribution

Using **K**ernel **D**ensity **E**stimation!
Proof of concept at z=2 in prep.