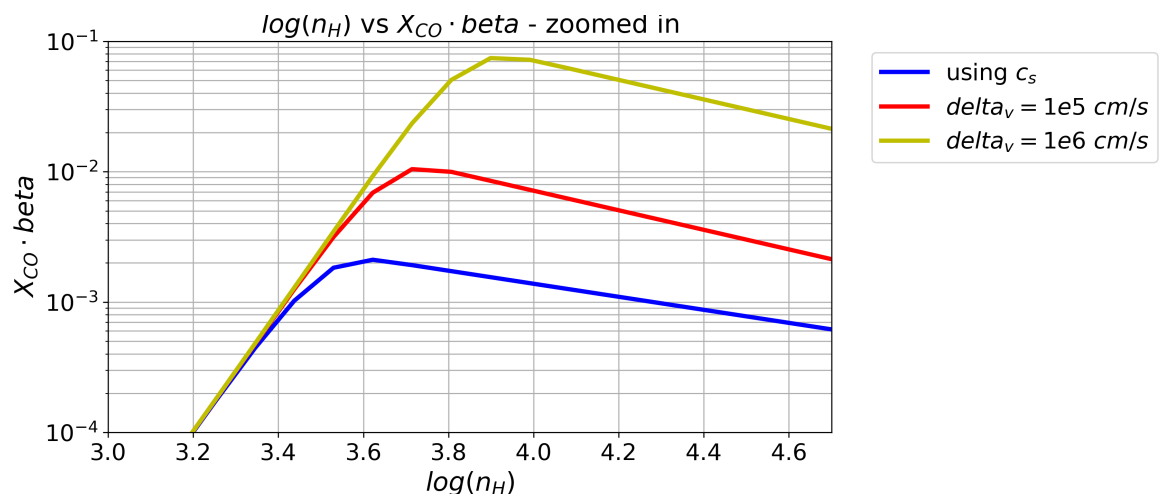
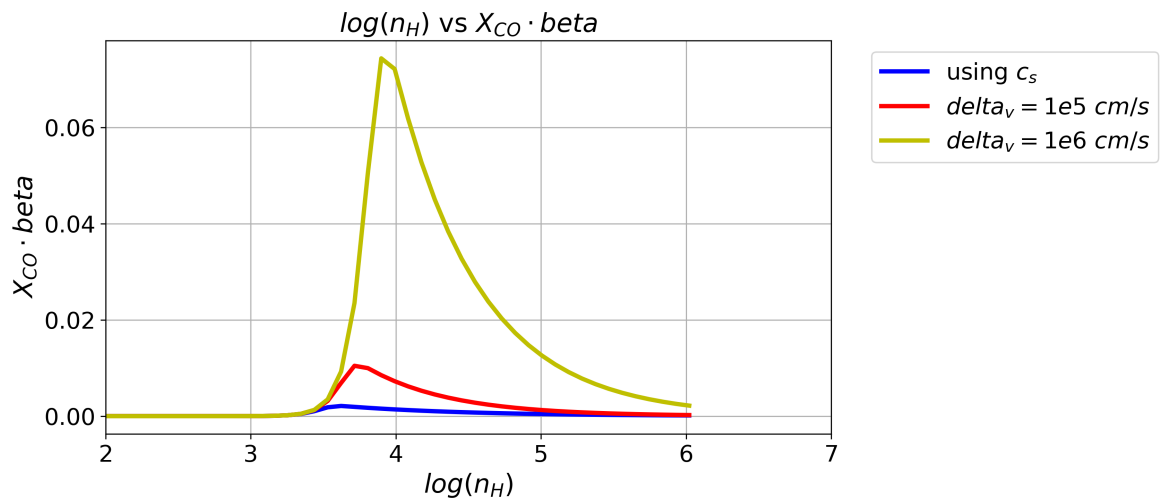
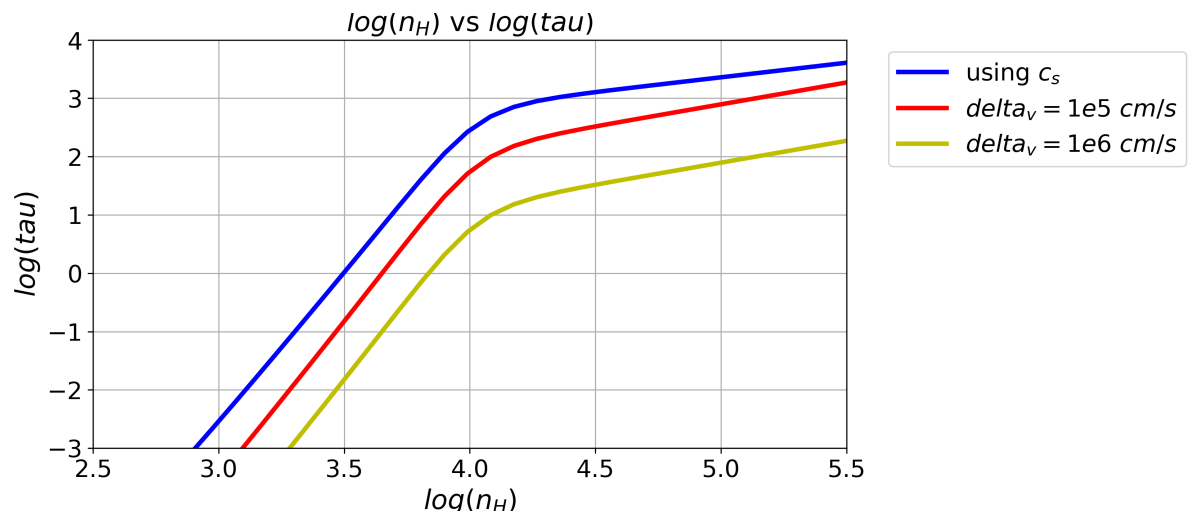
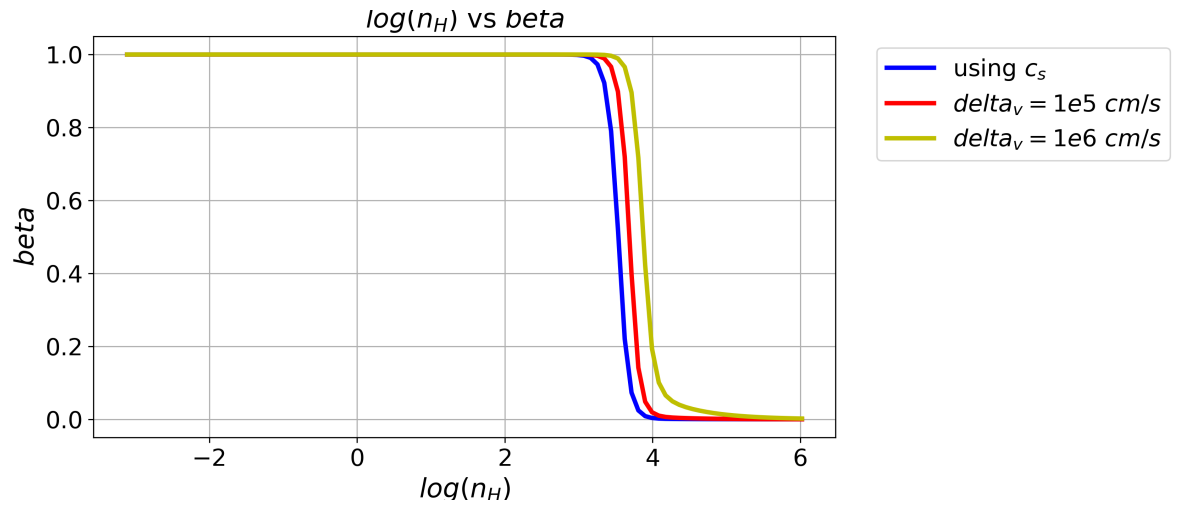
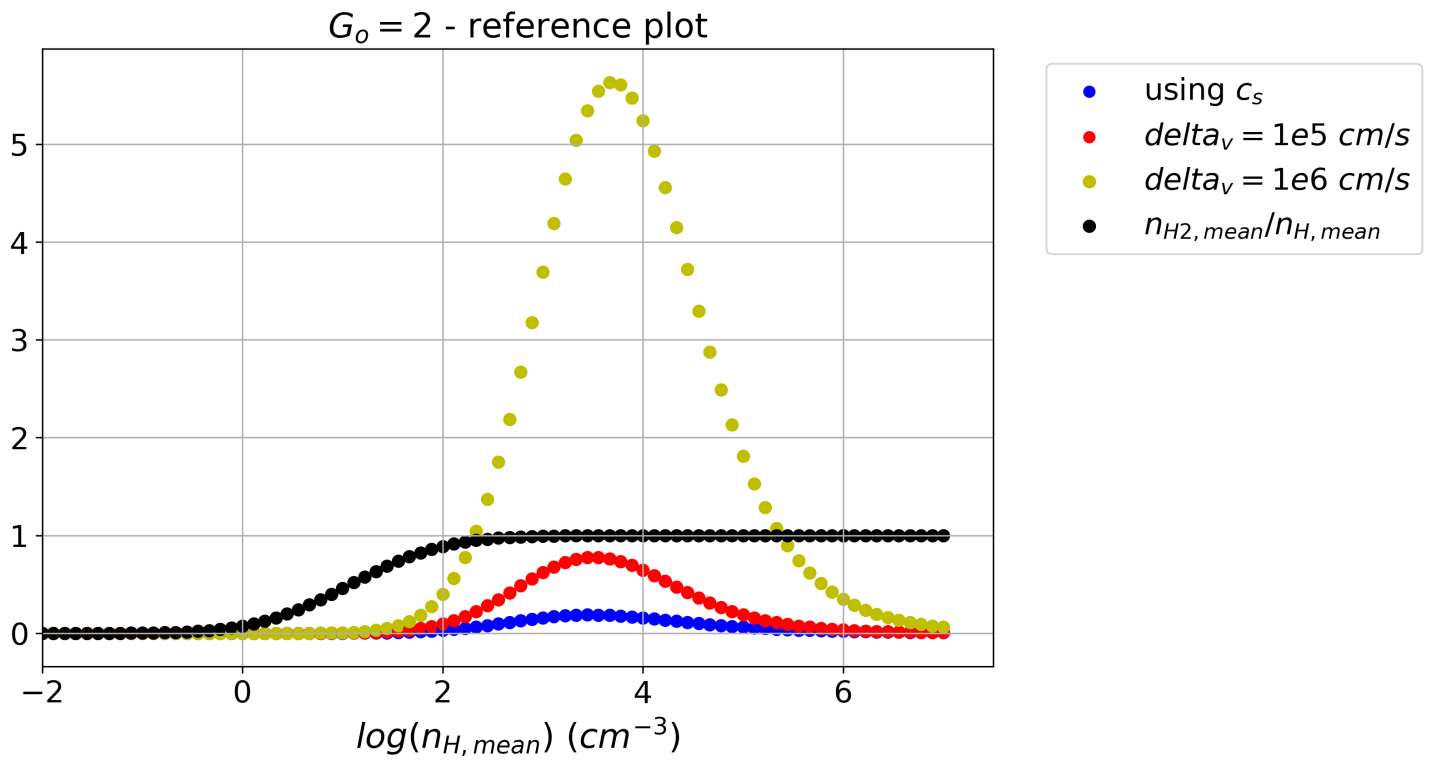


# SUB-GRID MODEL

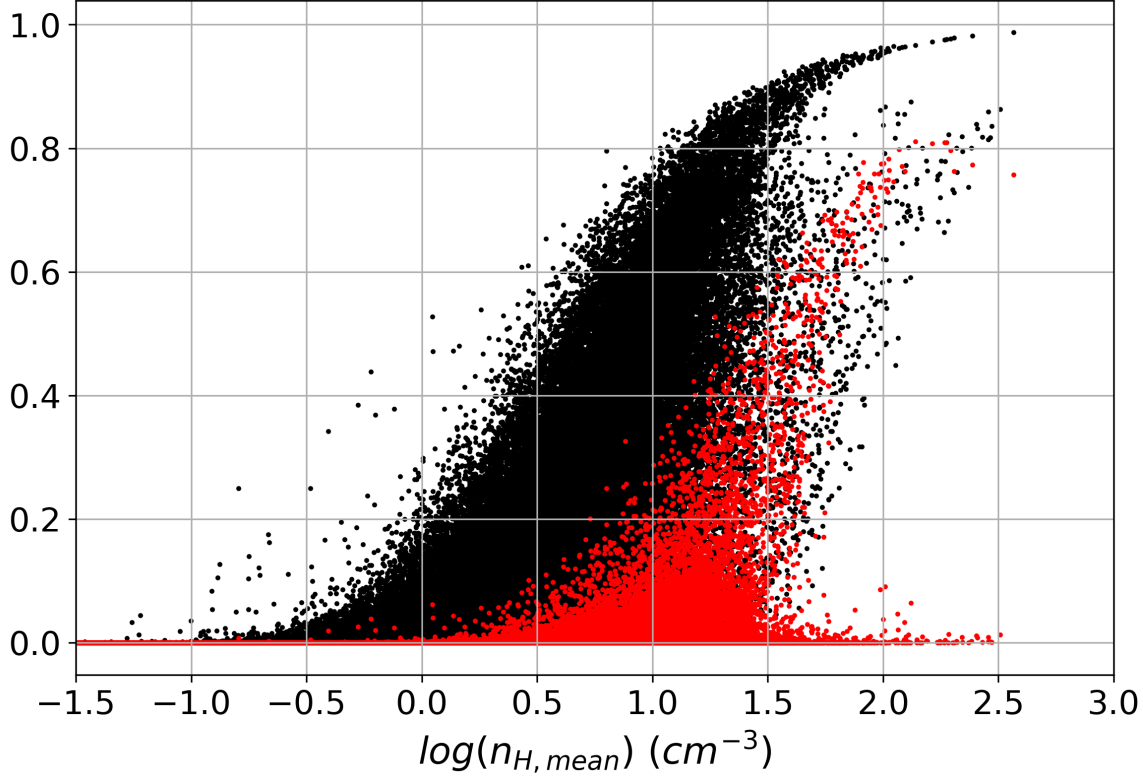


## REFERENCE PLOT



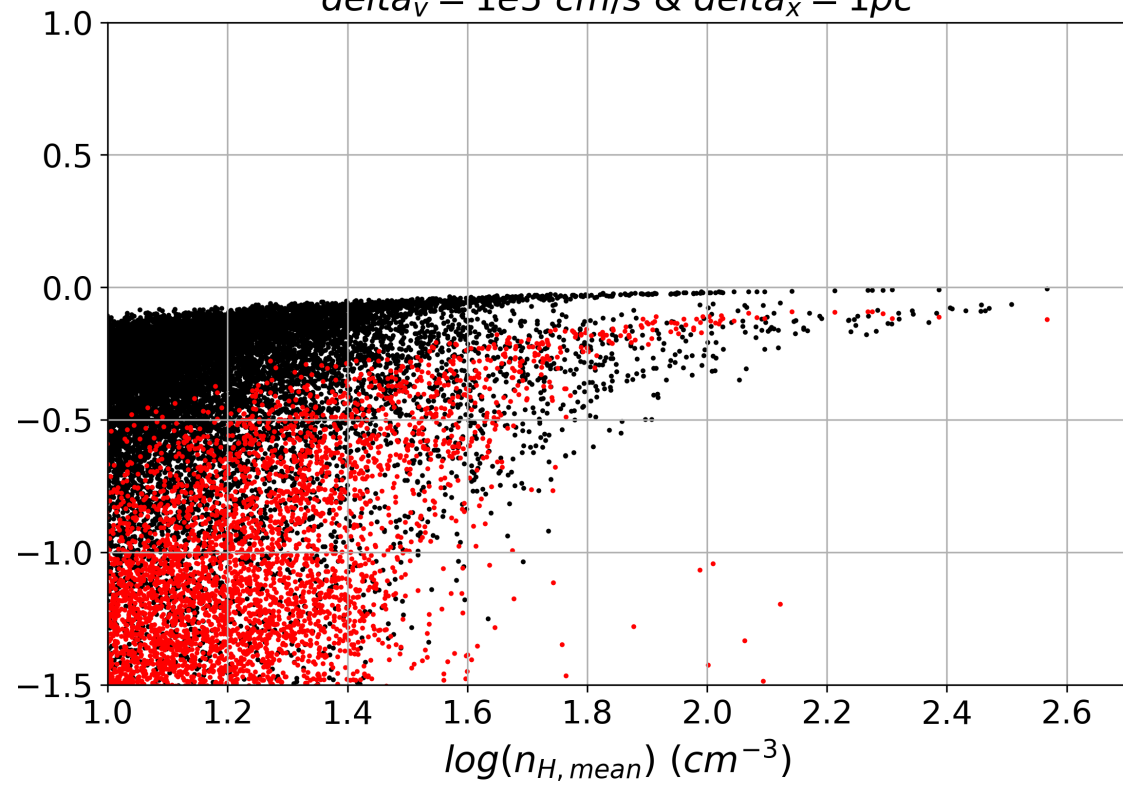
**M\_H2\_TOT = 2.863e9 M\_sol**  
**L\_CO\_GALAXY = 2.822e8 K km/s pc2**

$\Delta v = 1e5 \text{ cm/s}$  &  $\Delta x = 1 \text{ pc}$



●  $n_{H2,mean}/n_{H,mean}$   
● using  $\Delta v$

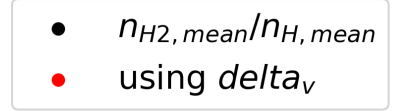
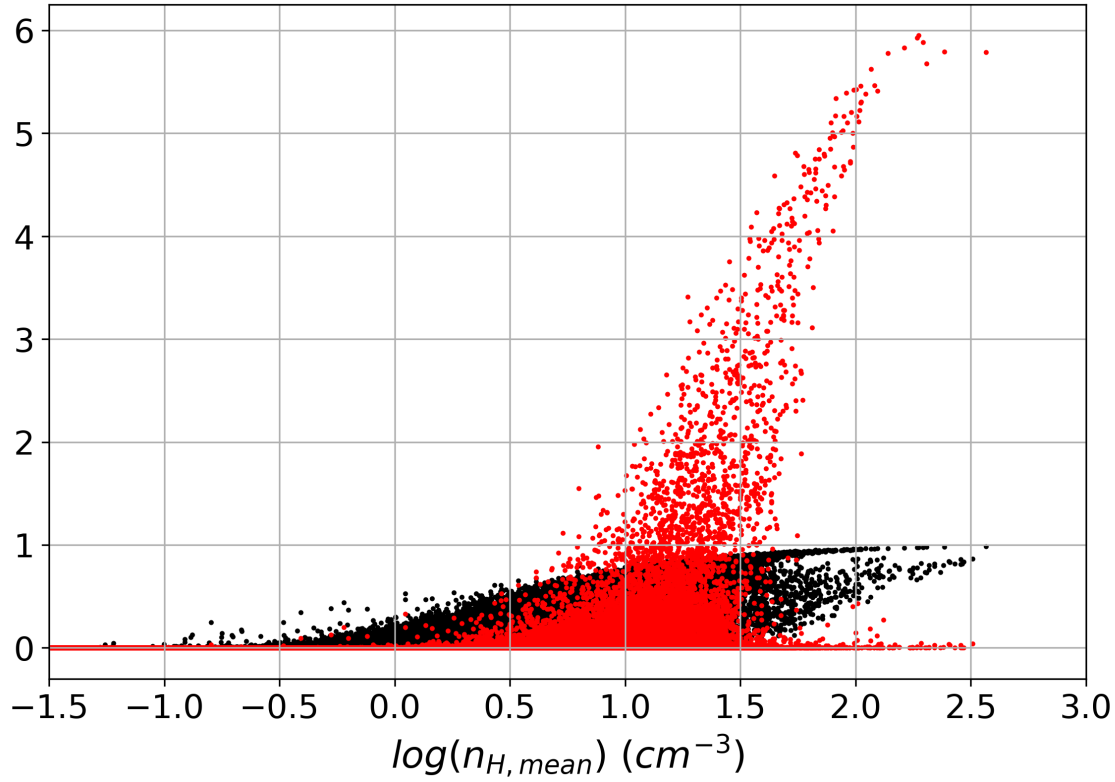
$\Delta v = 1e5 \text{ cm/s}$  &  $\Delta x = 1 \text{ pc}$



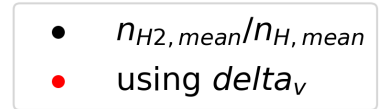
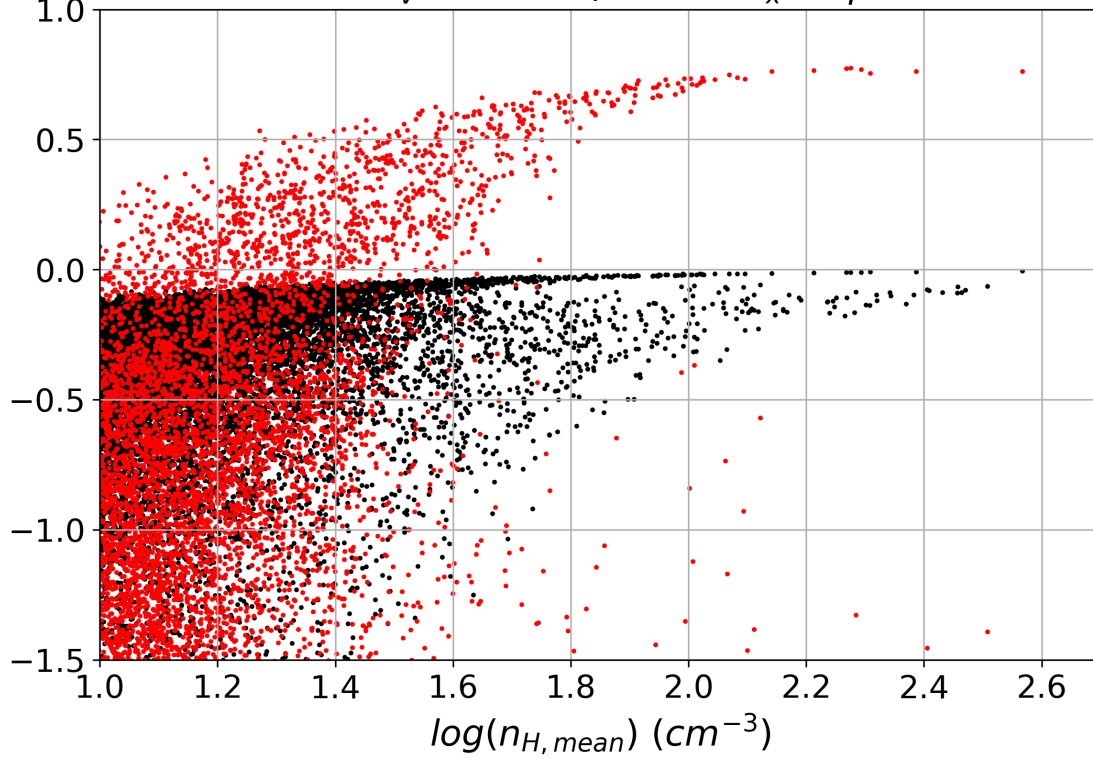
●  $n_{H2,mean}/n_{H,mean}$   
● using  $\Delta v$

**M\_H2\_TOT = 2.863e9 M\_sol**  
**L\_CO\_GALAXY = 16.873 e8 K km/s pc2**

$\Delta v = 1\text{e6 cm/s}$  &  $\Delta x = 1\text{pc}$

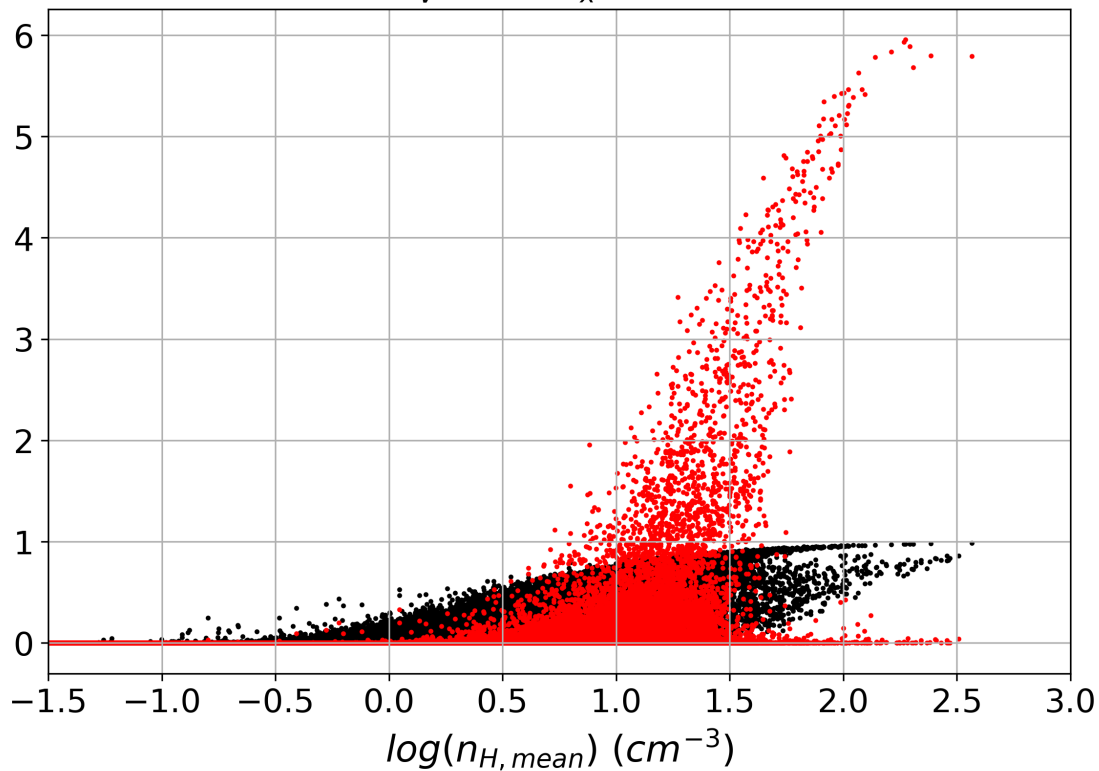


$\Delta v = 1\text{e6 cm/s}$  &  $\Delta x = 1\text{pc}$



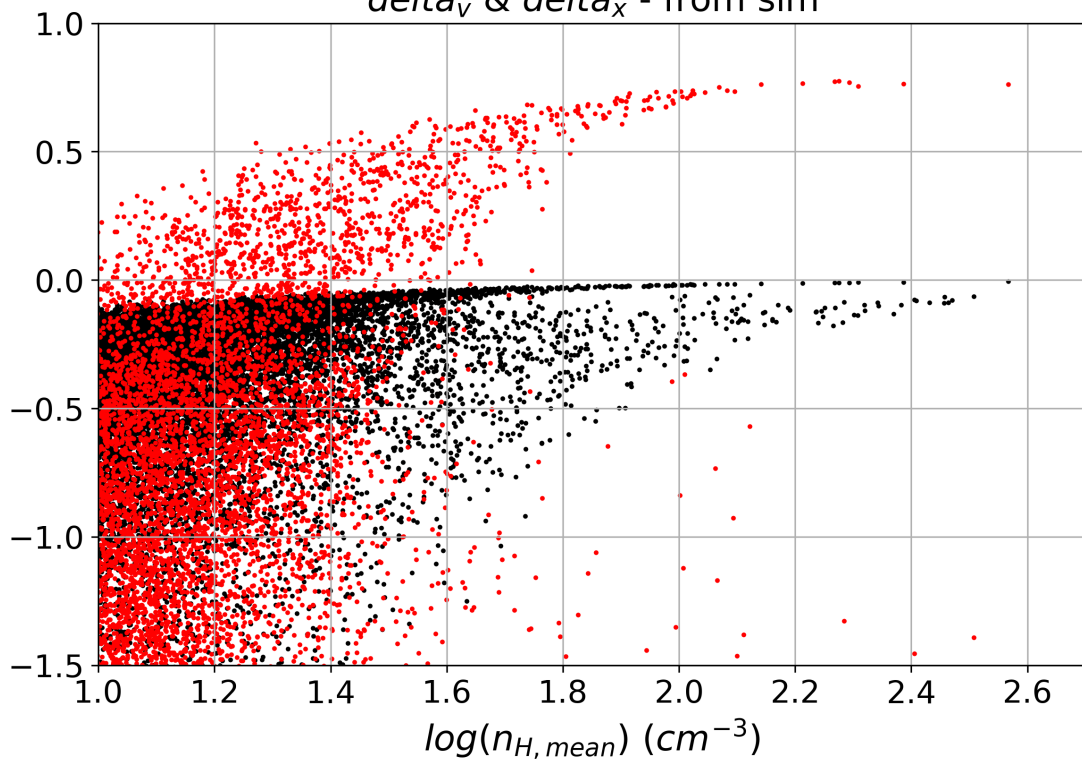
**M\_H2\_TOT = 2.863e9 M\_sol**  
**L\_CO\_GALAXY = 16.886 e8 K km/s pc2**

$\delta v$  &  $\delta x$  - from sim



- $n_{H2,mean}/n_{H,mean}$
- using  $\delta v$

$\delta v$  &  $\delta x$  - from sim



- $n_{H2,mean}/n_{H,mean}$
- using  $\delta v$

