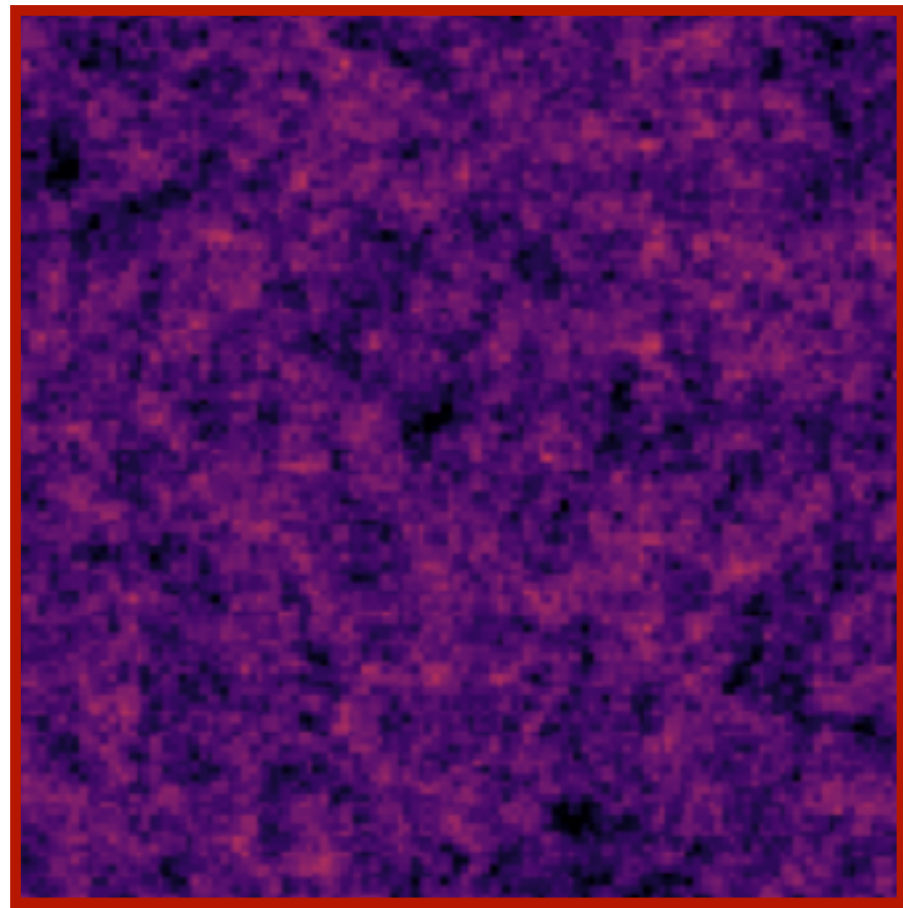


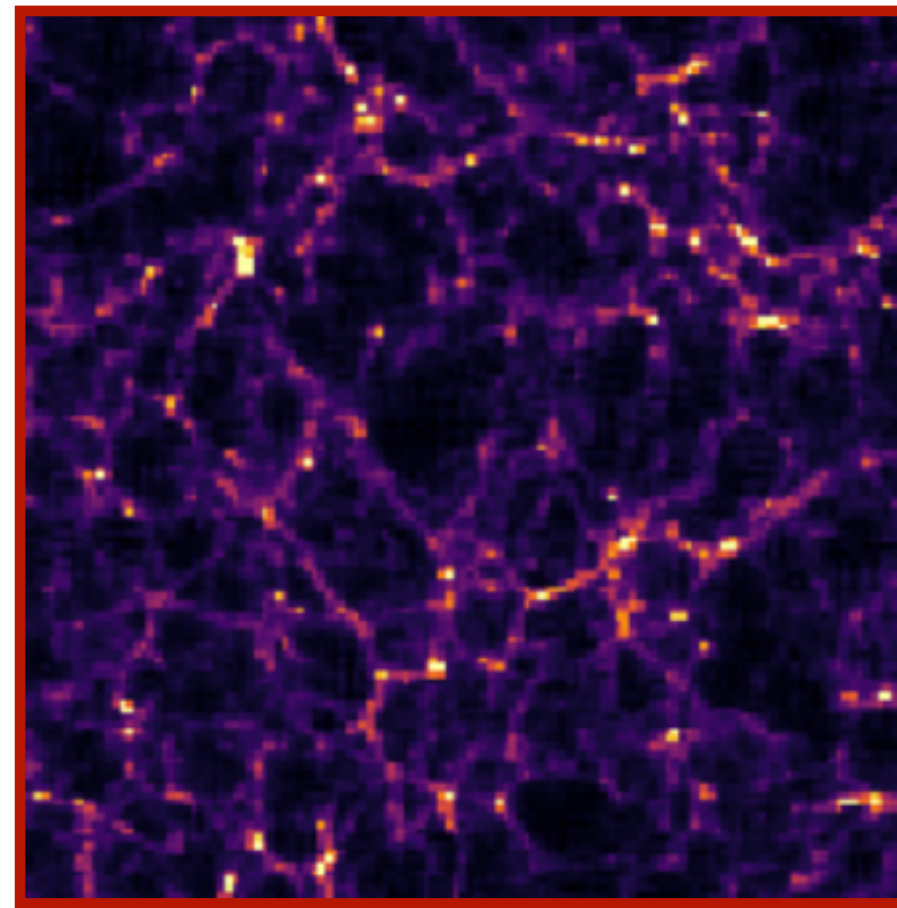
# Forward modeling

*Images credit: Chirag Modi*

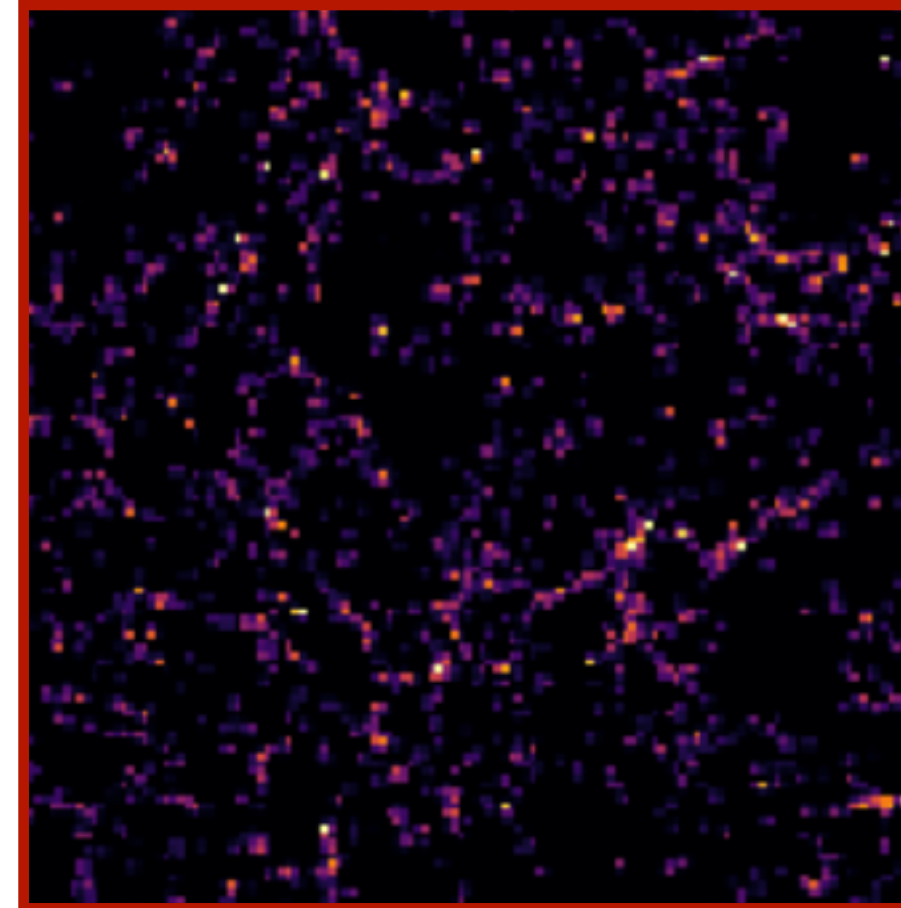
Gaussian field



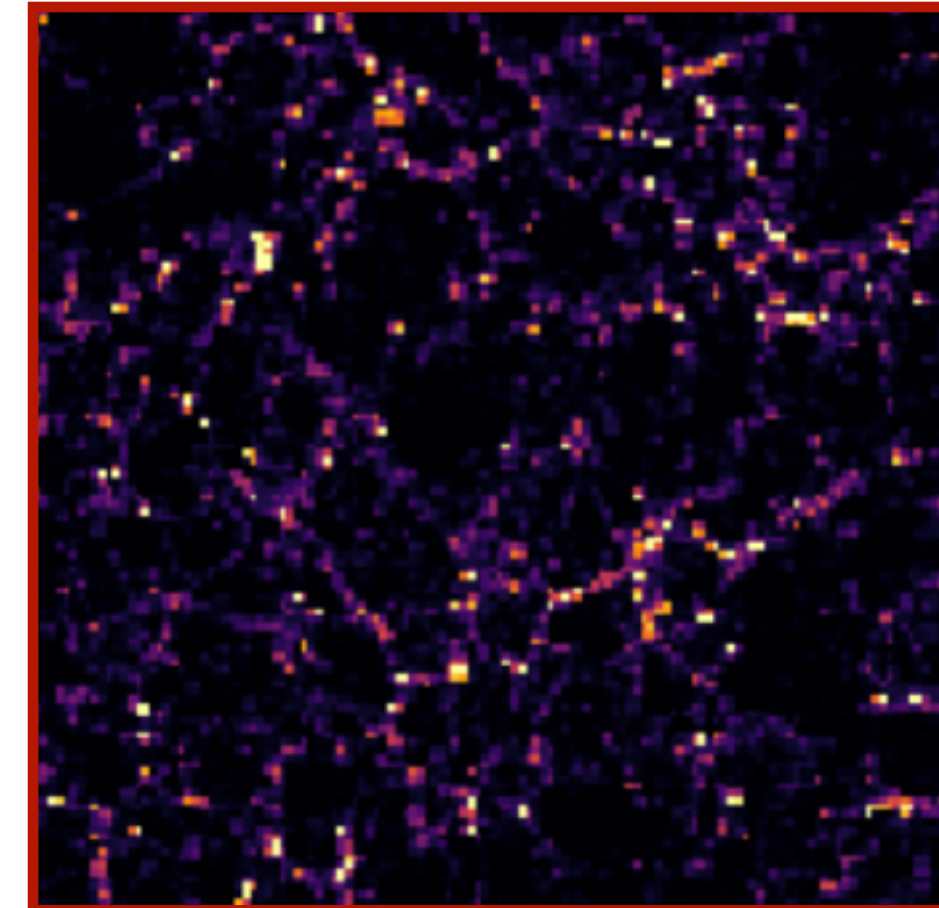
Dark matter field



Dark matter halos



Galaxies



+ Observational effects...



*N*-body simulation

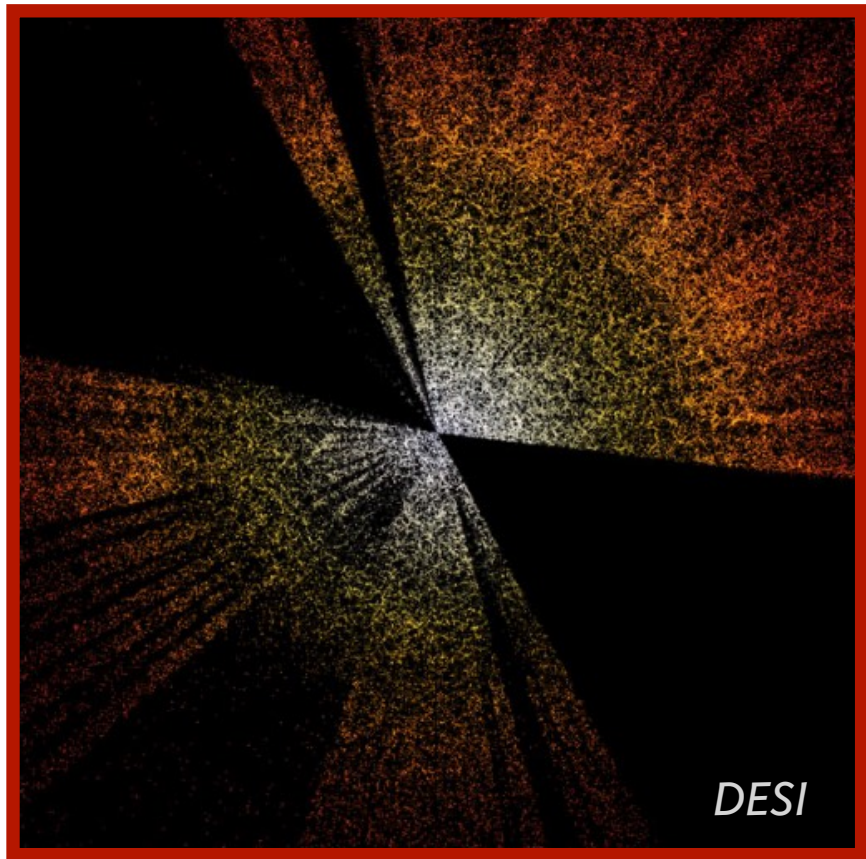


Group-finding algorithms



Galaxy-halo connection

$p$ (



Cosmology parameters  
 $\Omega_m, \sigma_8, \dots$

Galaxy-halo connection  
(HOD, semi-analytical,...)

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