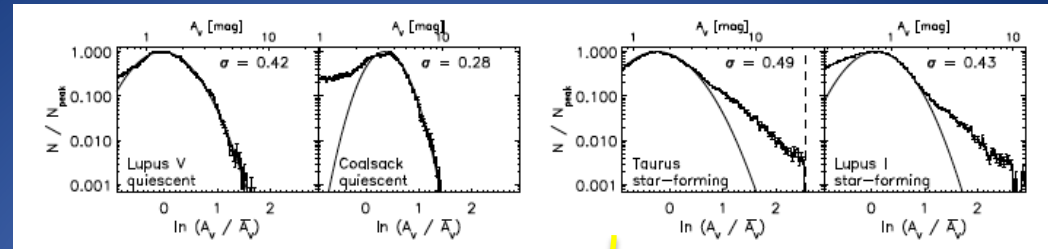
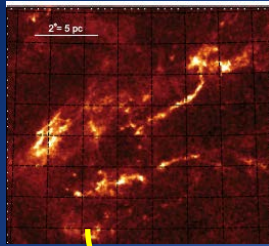


# Filament density from pdf inversion

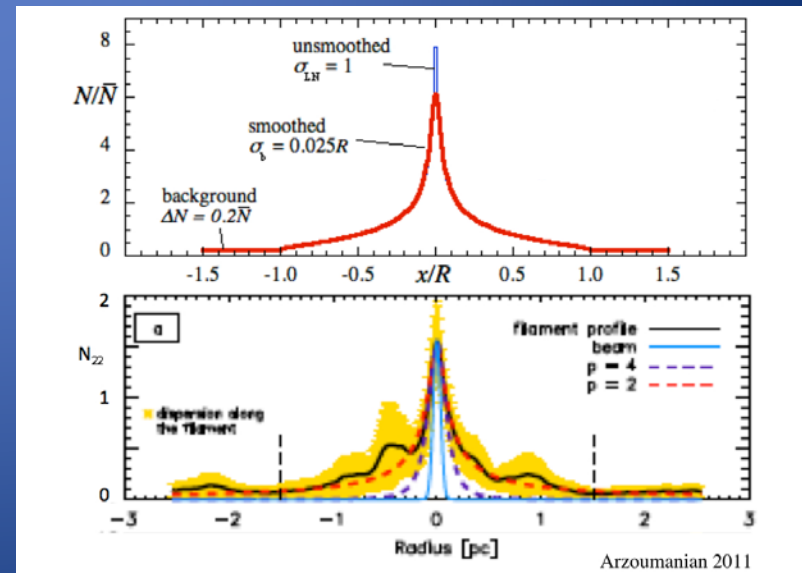
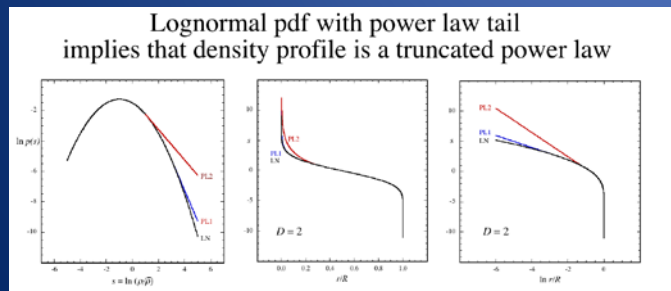
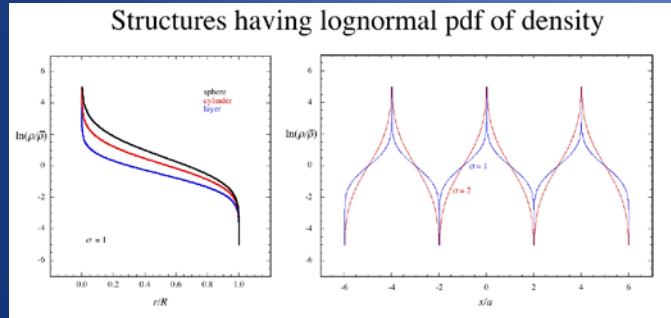


How are cloud structure and pdfs related?

Kainulainen et al. 2009

monotonic density structure & probability invariance:  
invert LN, LNPL pdf to get density profile  
in spherical, cylindrical, or planar symmetry

column density profile with beam smoothing and background resembles typical observed filament profile for cylindrical symmetry (rods) or planar symmetry (ribbons)



Arzoumanian 2011