

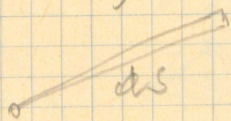
Holtzman

$$r^{-2} = u$$

$$r^{-2} = u^*$$

$$D = N(4R^{3\pi/3})^{-1}$$

mean density of stars



$$ds \, d(r^3) = ds \, d(u^{-3/2})$$

prob of u star

$$\left| \frac{ds \cdot d(u^{-3/2})}{ds \cdot R^3} \right| = \left| d(u/u^*) \right|^{-3/2}$$

$$\varphi(\xi u^*)$$

$$R \rightarrow \infty, N \rightarrow \infty$$

$$D \cdot ds (e^{-3/2} - e^{-3/2}) / D \cdot ds u^{*-3/2}$$

$$\log \varphi_R(\xi) = (D \cdot ds) \int_{R^{-2}}^{\infty} (e^{i\xi u} - 1) / d(u^{-3/2})$$

fluctuation of the contrast of far away stars;

$$\varphi(\xi) = \exp \left\{ (D \cdot ds) \int_0^{R^{-2}} (e^{i\xi u} - 1 - i\xi u) / d(u^{-3/2}) \right\}$$