$$\delta_{g}(\mathbf{r}) = \frac{n_{g}(\mathbf{r}) - \langle n_{g} \rangle}{\langle n_{g} \rangle}$$

$$\delta_{m}(\mathbf{r}) = \frac{\rho_{m}(\mathbf{r}) - \langle \rho_{m} \rangle}{\langle \rho_{m} \rangle}$$

$$\delta_{g}(\mathbf{r}) = b_{g}\delta_{m}(\mathbf{r})$$

$$(2(n-1))^{-1/2}$$

$$\operatorname{prob}(\boldsymbol{\delta}) = (2\pi)^{-n/2}|C|^{-1/2} \exp\left(\boldsymbol{\delta}^{\dagger}C^{-1}\boldsymbol{\delta}\right)$$

$$C = \langle \boldsymbol{\delta}\boldsymbol{\delta}^{\dagger} \rangle$$

$$(2\pi)^{3}\delta_{D}(\mathbf{k}_{1} + \mathbf{k}_{2})P(k) = \langle \delta(\mathbf{k}_{1})\delta(\mathbf{k}_{2})\rangle_{|\mathbf{k}_{i}| = |\mathbf{k}_{j}| = k}$$

$$\xi(r) = \langle \delta(\mathbf{r}_{1})\delta(\mathbf{r}_{2})\rangle_{|\mathbf{r}_{2} - \mathbf{r}_{1}| = r}$$

$$P(\mathbf{k}) = \int \xi(\mathbf{r})e^{+i\mathbf{k}\cdot\mathbf{r}}d^{n}r$$

$$\xi(\mathbf{r}) = \int_{0}^{\infty} \frac{dk}{(2\pi)^{n}}k^{n-1}P(k)\begin{cases} 2\cos(kr) & n = 1\\ 2\pi J_{0}(kr) & n = 2\\ 4\pi j_{0}(kr) & n = 3 \end{cases}$$

$$j_{0}(kr) = \frac{\sin(kr)}{kr}$$

$$\xi(r) = \frac{1}{4\pi^{2}}\int_{0}^{\infty}dk \, k^{2}\frac{\sin(kr)}{kr}P(k)$$

$$\Delta^{2}(k) \equiv \frac{1}{2\pi^{2}}k^{3}P(k) = \frac{d\sigma^{2}}{d\log k}$$

$$\sigma^2 = \langle \delta(k)^2 \rangle$$

$$\delta_D(m{r}-m{r}_0)$$

$$\exp(i \boldsymbol{k} \cdot \boldsymbol{r}_0)$$