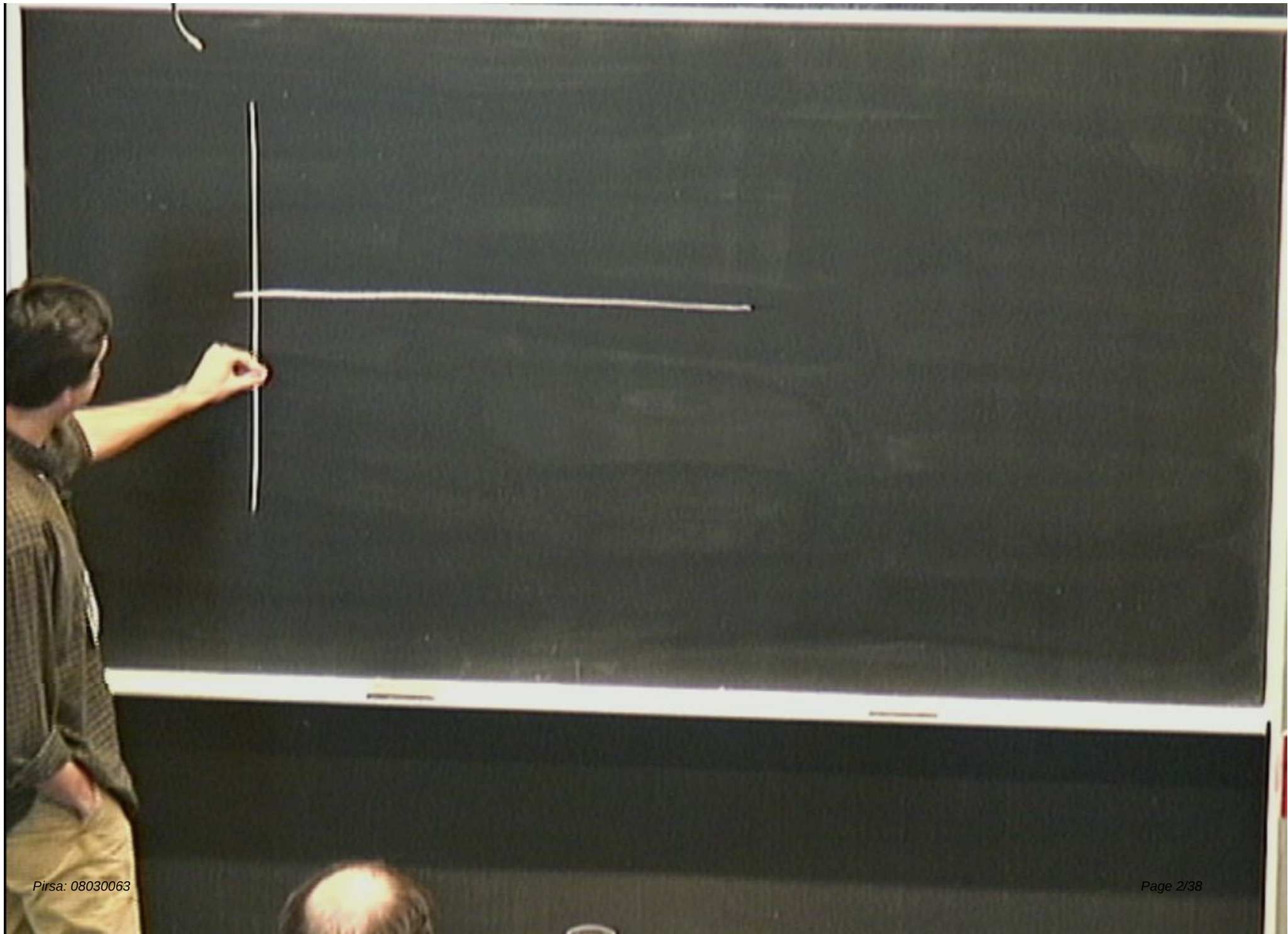


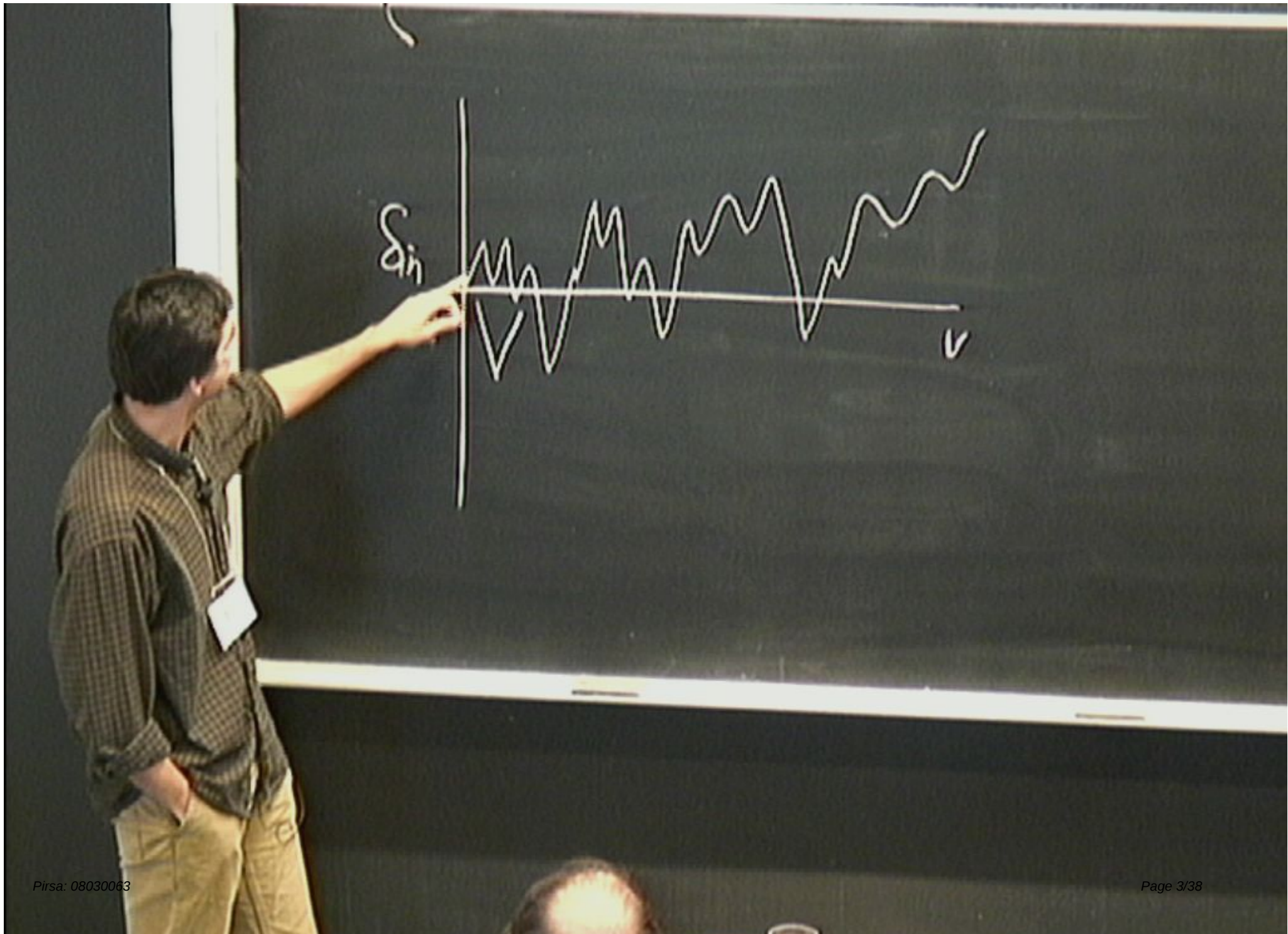
Title: Reconstruction of the primordial density PDF

Date: Mar 09, 2008 05:20 PM

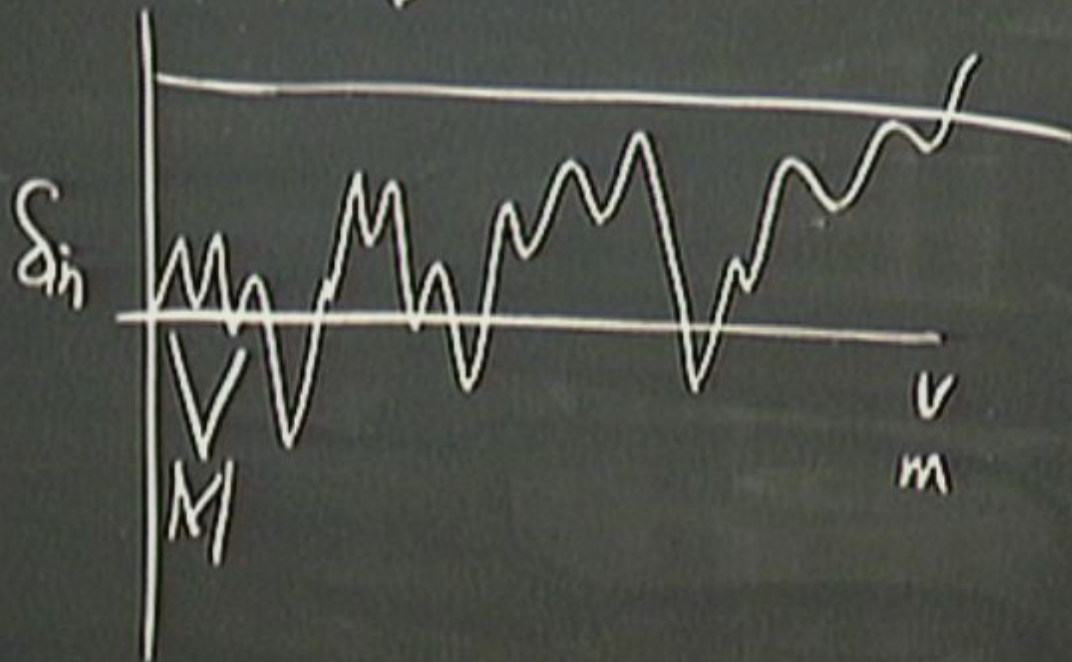
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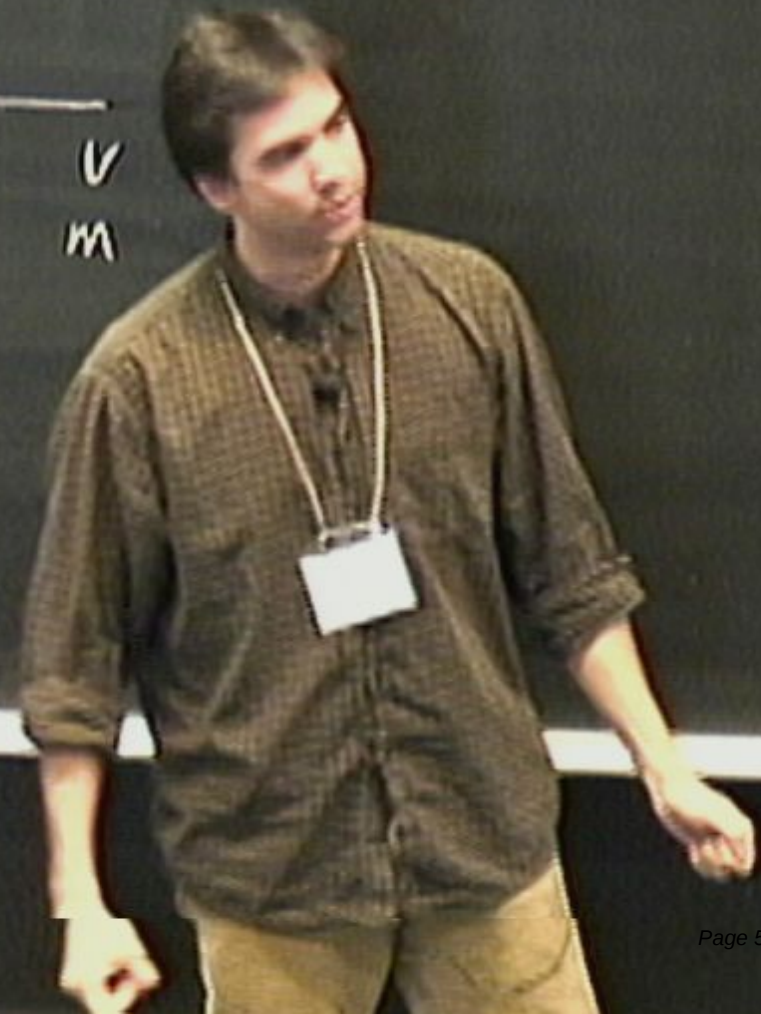
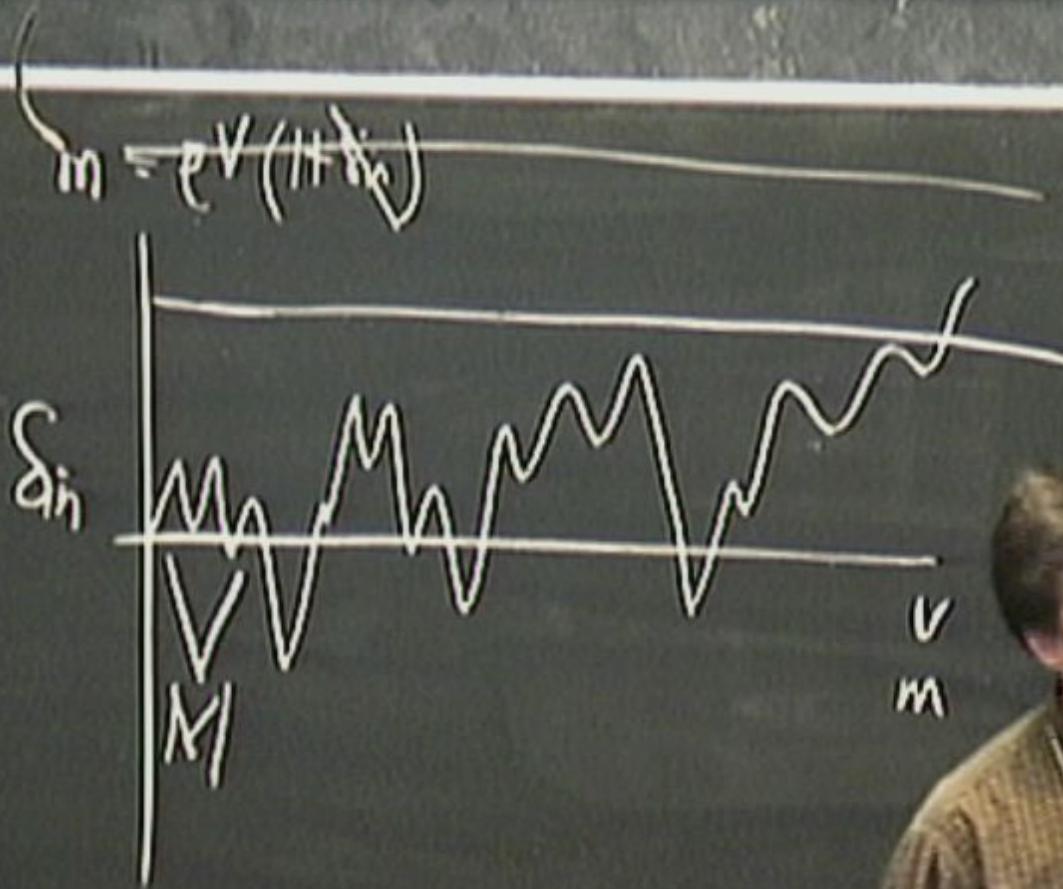
Abstract:

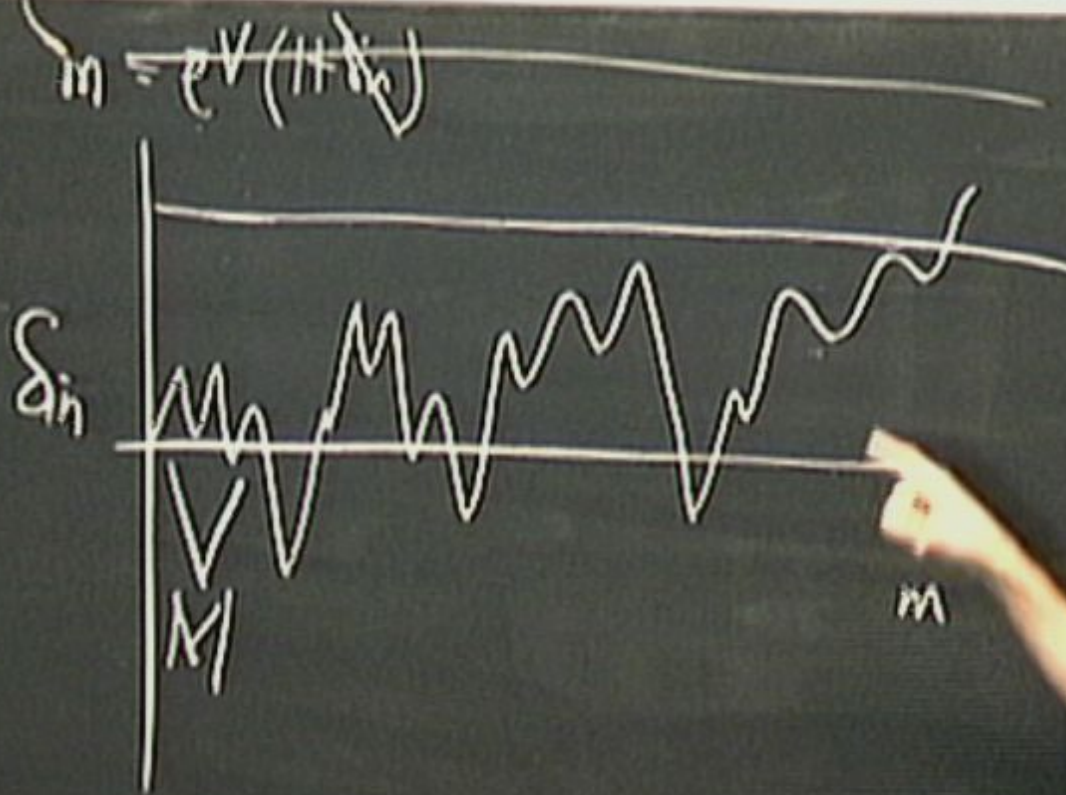




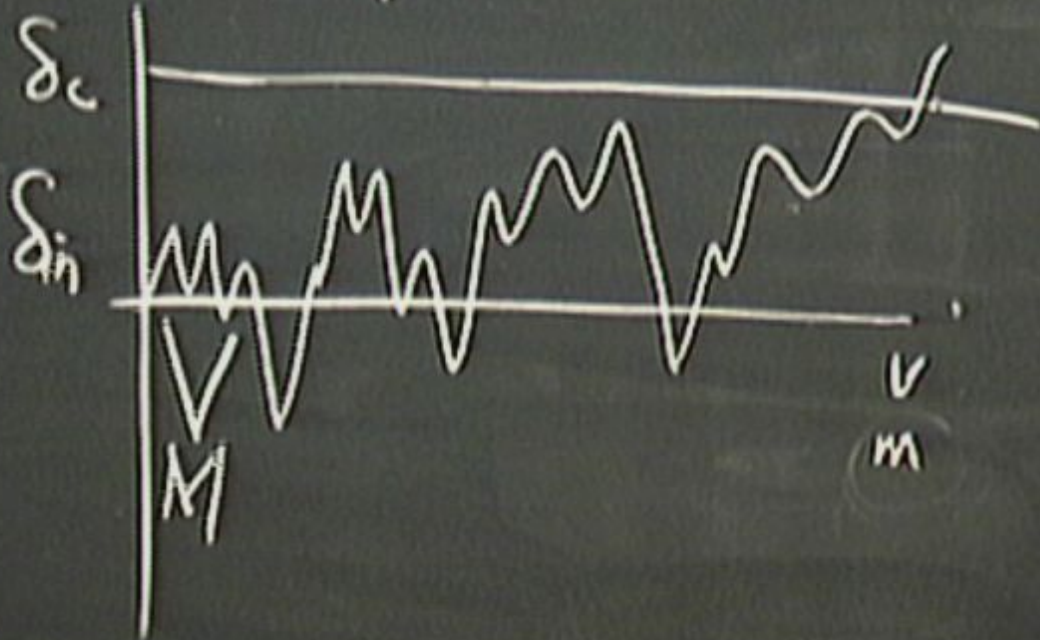
$$m = eV(1 + \delta_{in})$$







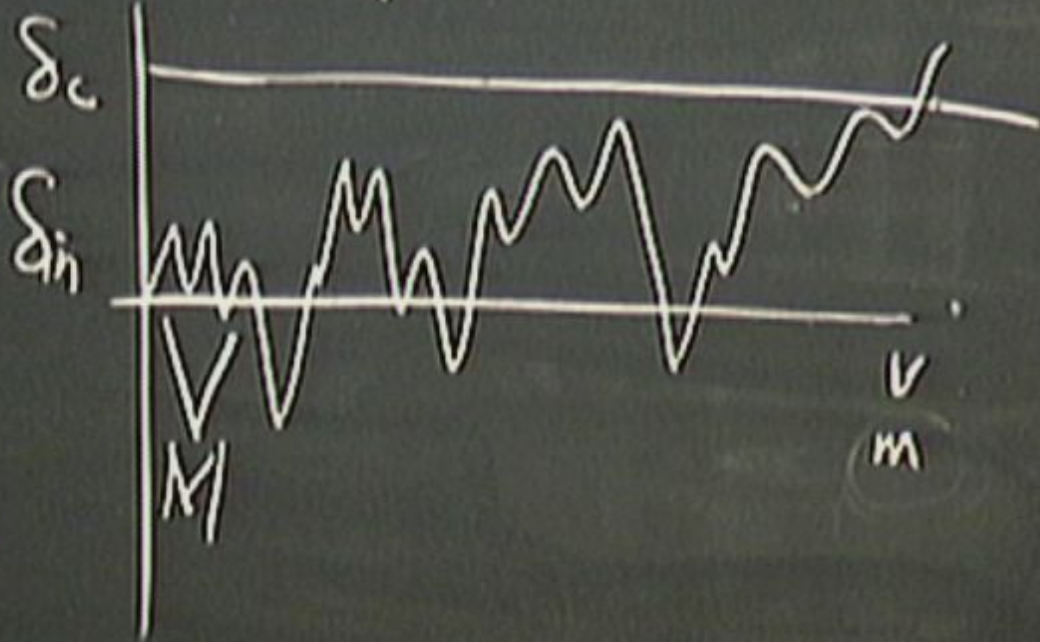
$$m = \rho V (1 + \delta_c)$$



$$f(m, \delta_c)$$

=

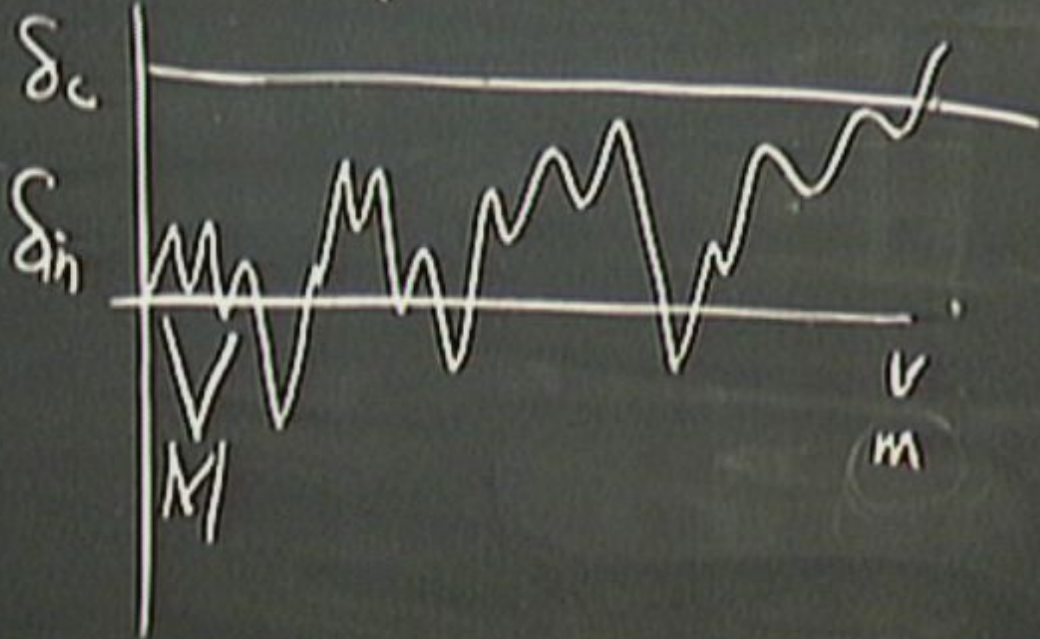
$$m = \rho V (1 + \alpha \Delta T)$$



$$\int (m, \delta_{\text{eff}}) dm$$

$$= m n(m, \delta_{\text{eff}}) dm$$

$$m = \rho V (1 + \frac{1}{2} \frac{v^2}{c^2})$$

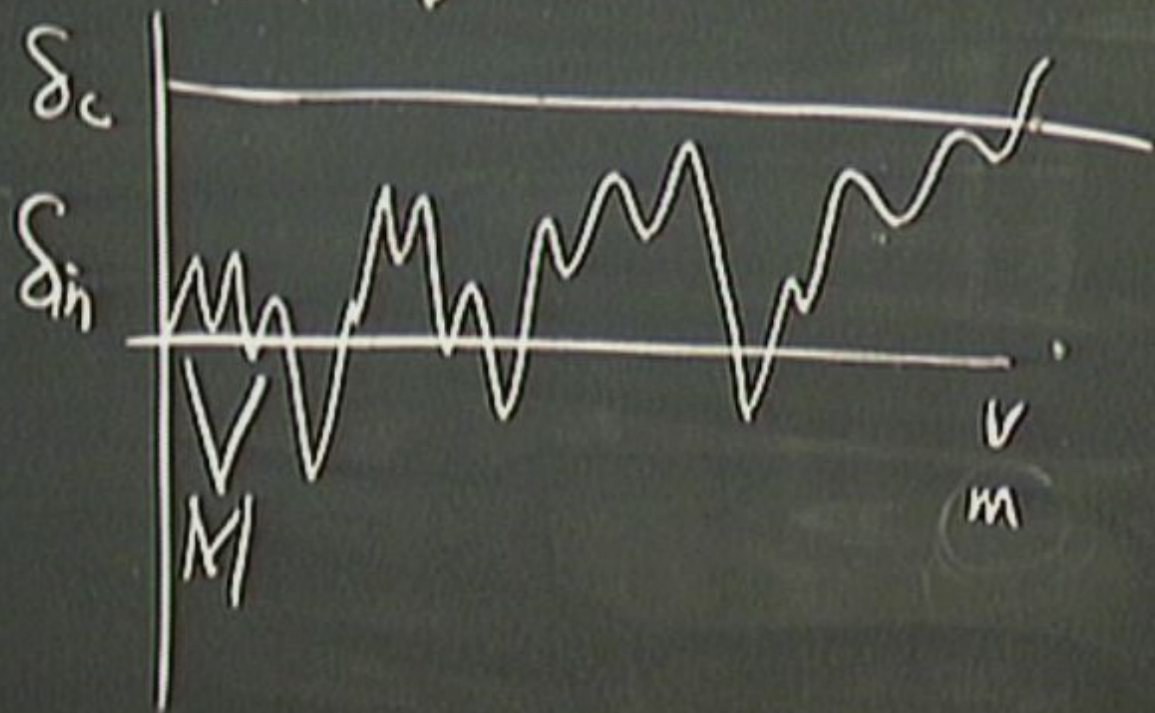


$$\int (m, \delta e) dm$$

$$= \frac{m \, n(m, \delta e) dm}{\int m \, n(m) dm}$$

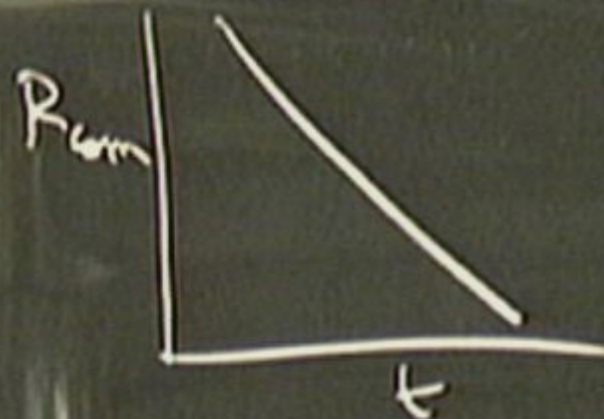
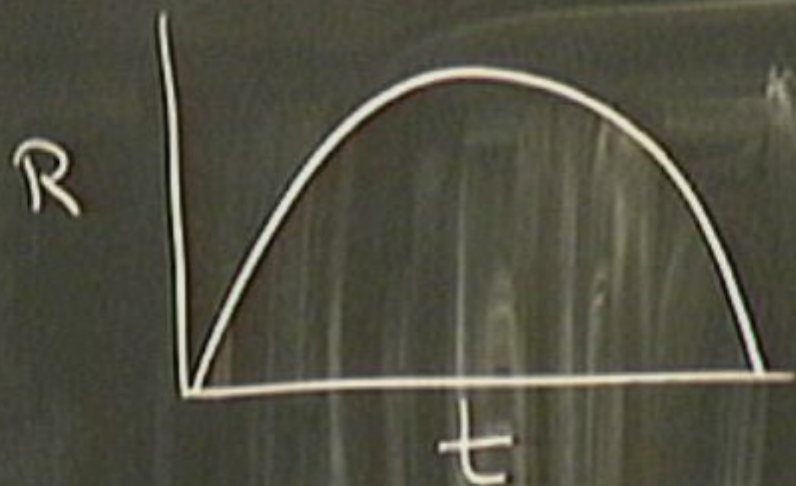
$$m = \rho V (1 + \frac{\delta_c}{\delta_m})$$

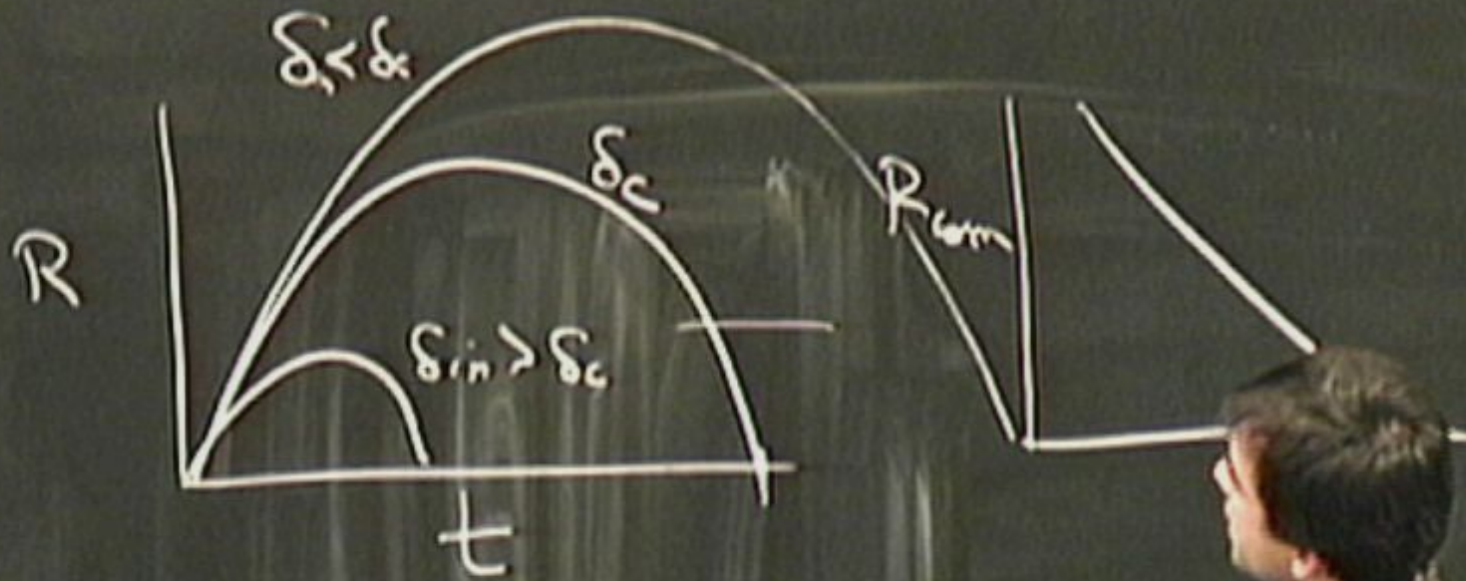
(Bond et al 91)

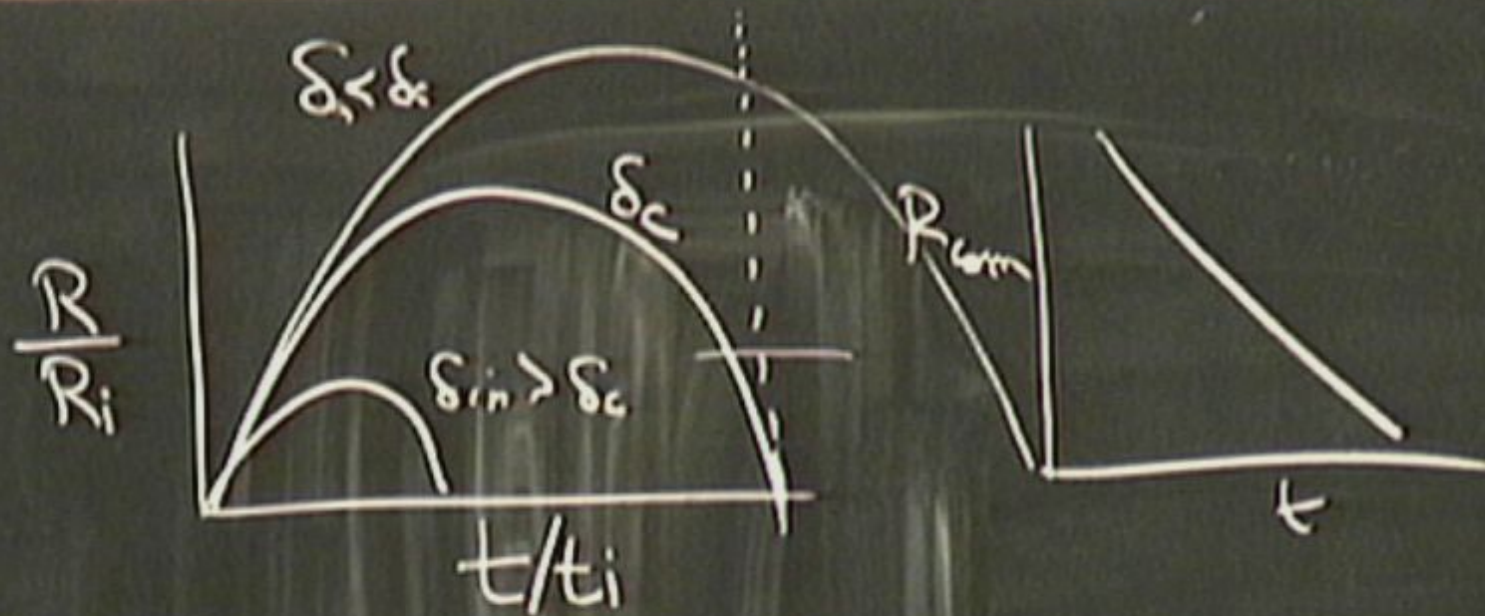


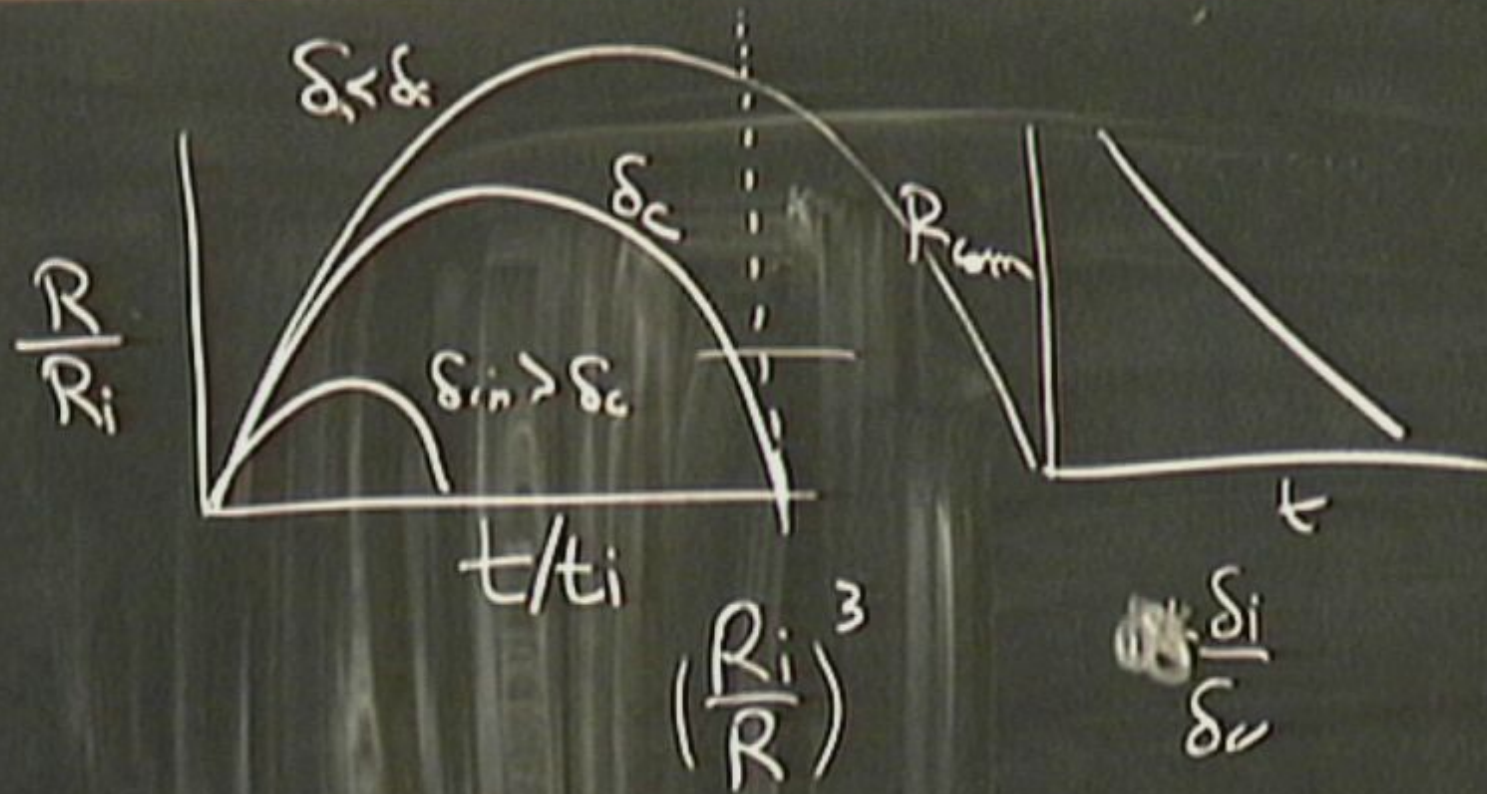
$$\int (m, \delta_c) dm$$

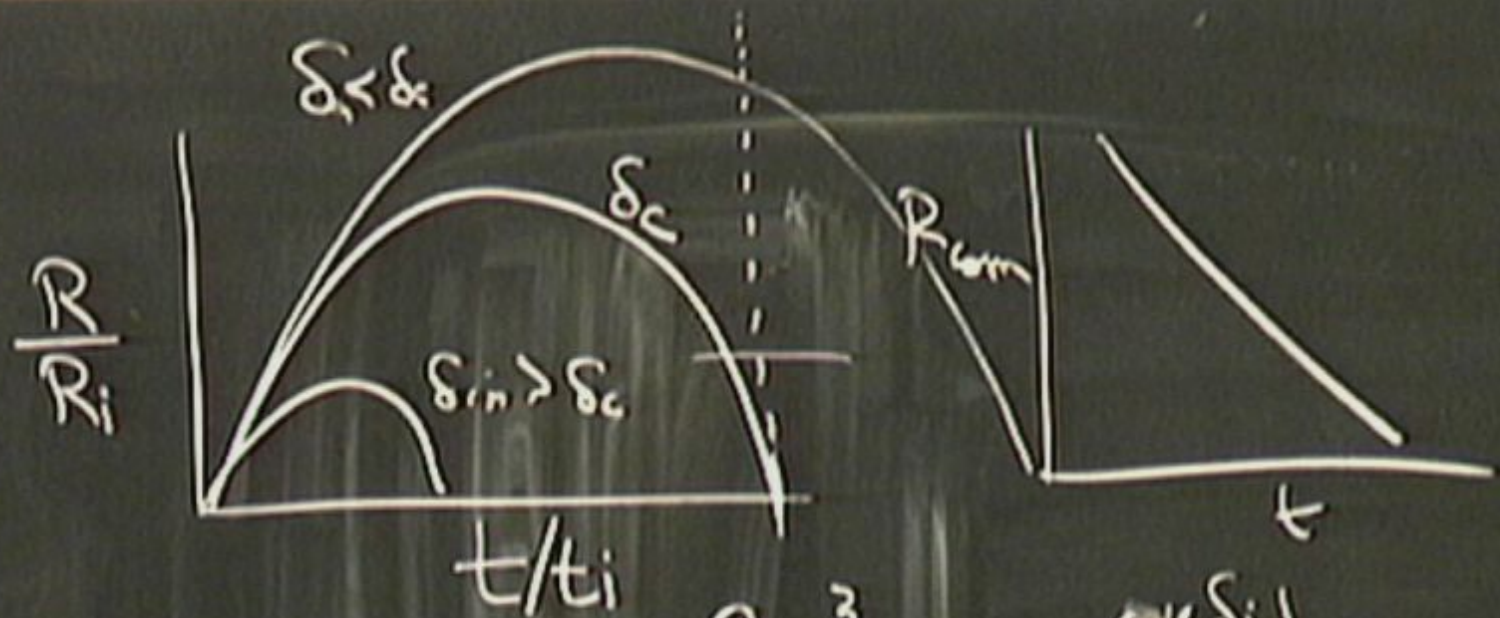
$$= \frac{m \rho (m, \delta_c) dm}{\rho \int m \rho (m) dm}$$



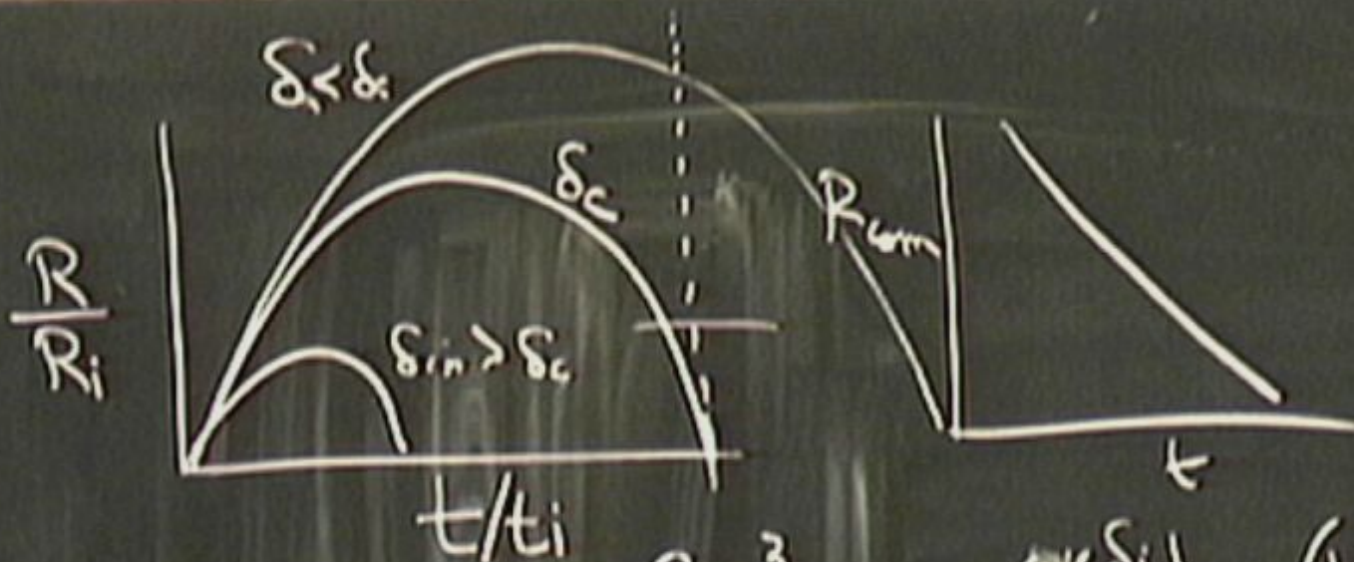






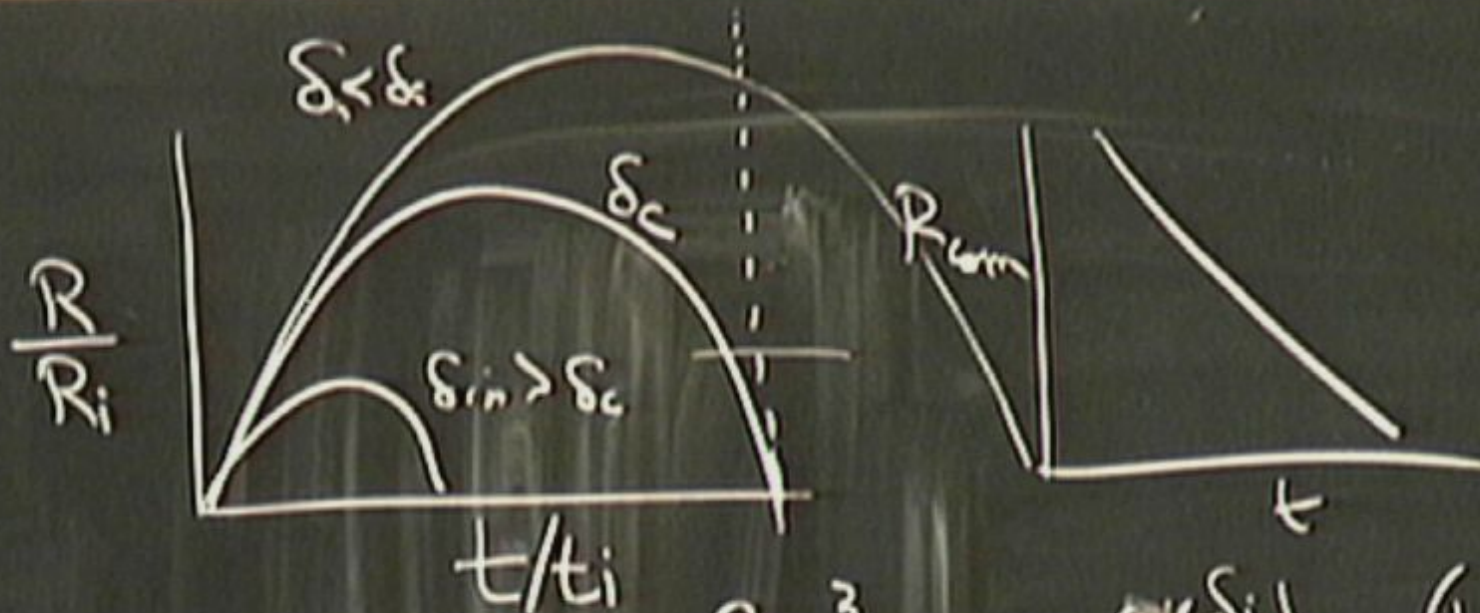


$$1 + \Delta = \frac{M}{V} = \left(\frac{R_i}{R} \right)^3 = f\left(\frac{\delta_i}{\delta_c} \right)$$



$$1 + \Delta = \frac{M}{V} = \left(\frac{R_i}{R} \right)^3 =$$

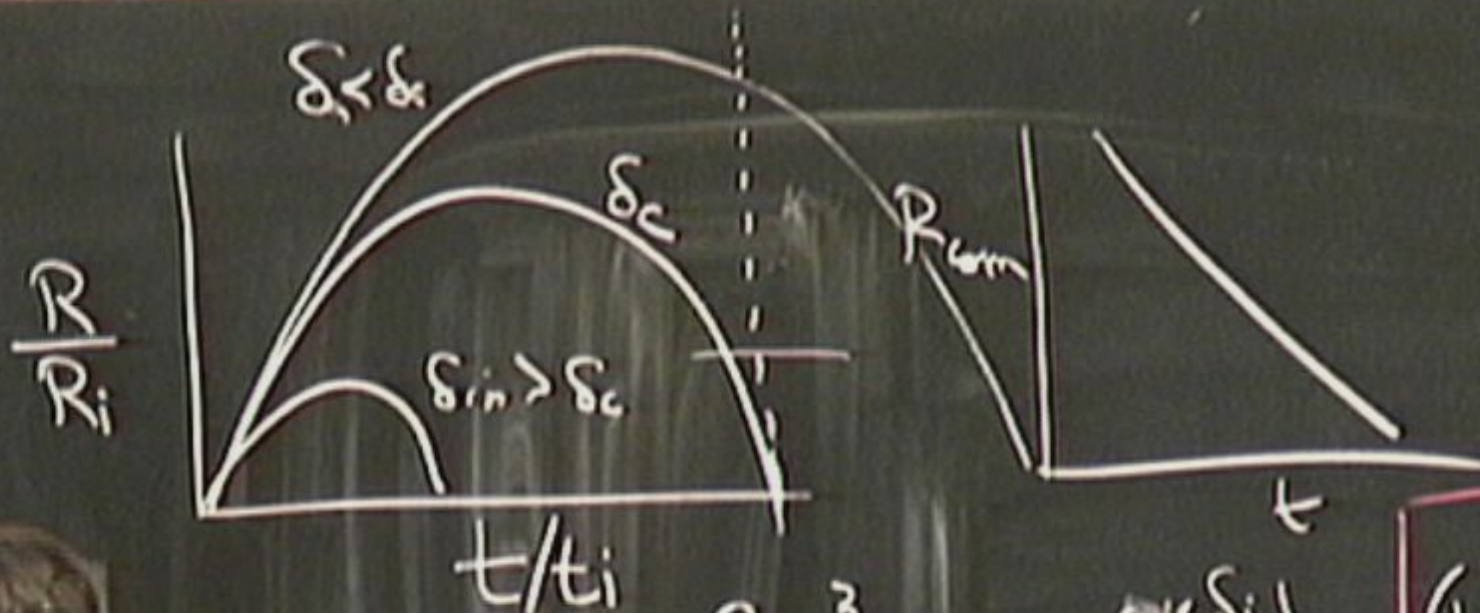
$$f\left(\frac{\delta_i}{\delta_c}\right) = \left(1 - \frac{\delta_i}{\delta_c}\right)^{-\delta_c}$$



$$1 + \Delta = \frac{M}{V} = \left(\frac{R_i}{R} \right)^3 =$$

$$f\left(\frac{\delta_i}{\delta_c}\right) = \left(1 - \frac{\delta_i}{\delta_c}\right)^{-\delta_c}$$

$$= 1 + \frac{\delta_i}{\delta_c} (-\delta_c)$$



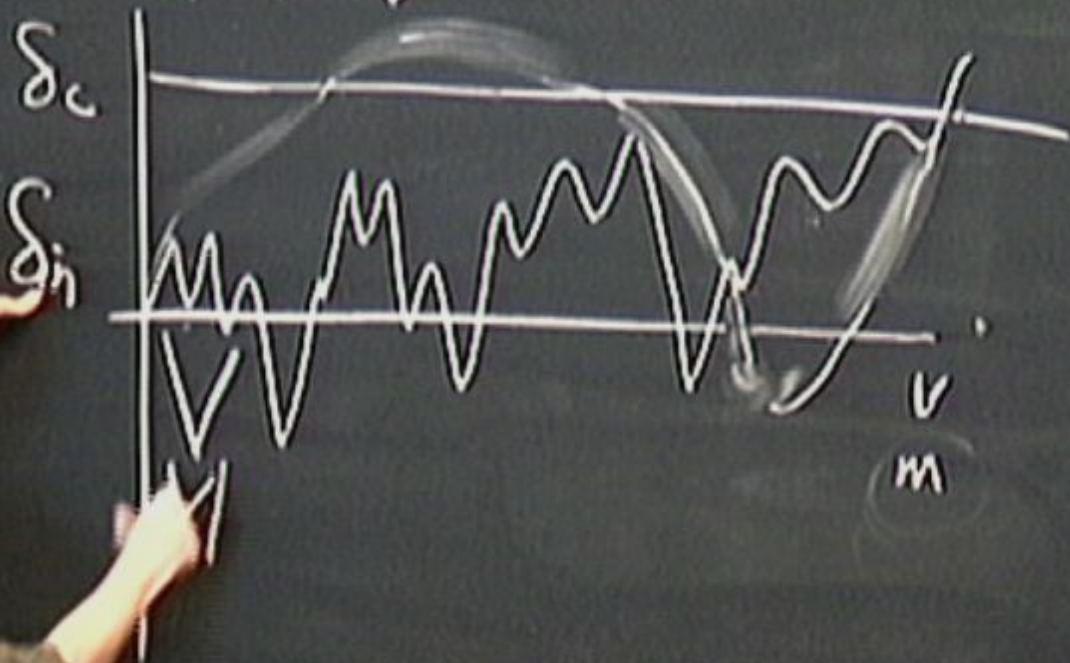
$$1 + \Delta = \left[\frac{M}{V} \right] = \left(\frac{R_i}{R} \right)^3 =$$

$$f\left(\frac{\delta_i}{\delta_c}\right) = \left[\left(1 - \frac{\delta_i}{\delta_c} \right)^{-\delta_c} \right]$$

$$= 1 + \frac{\delta_i}{\delta_c} (-\delta_c)$$

$$m = pV(1 + \frac{1}{\gamma})$$

(Bond et al 91)

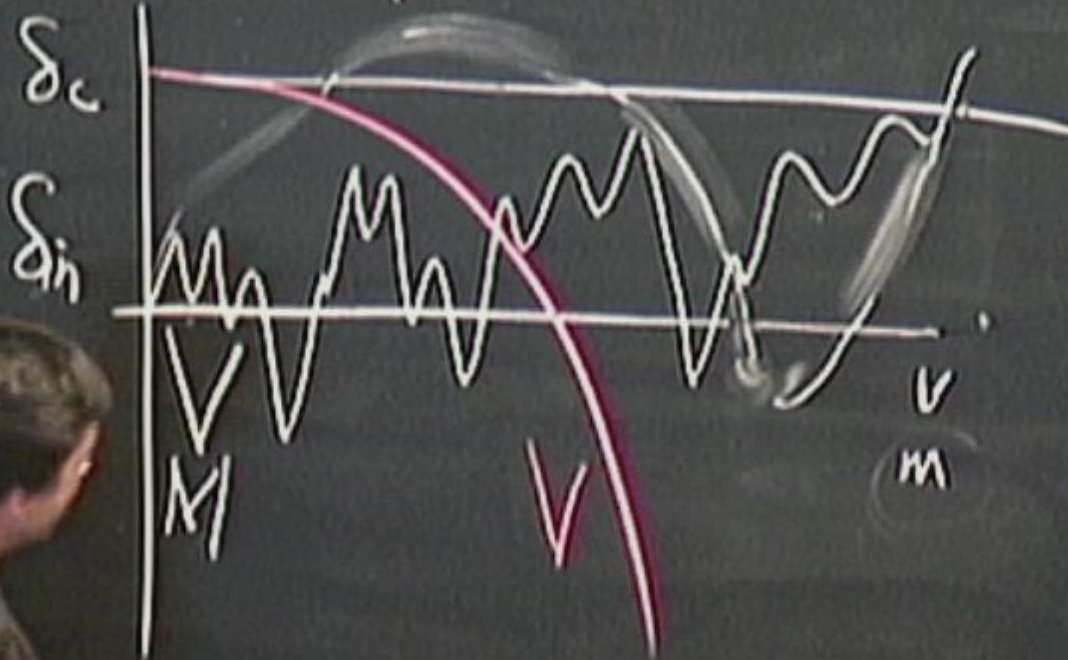


$$\int (m, \delta_{\epsilon}) dm$$

$$= \frac{m n(m, \delta_{\epsilon}) dm}{\int m n(m) dm}$$

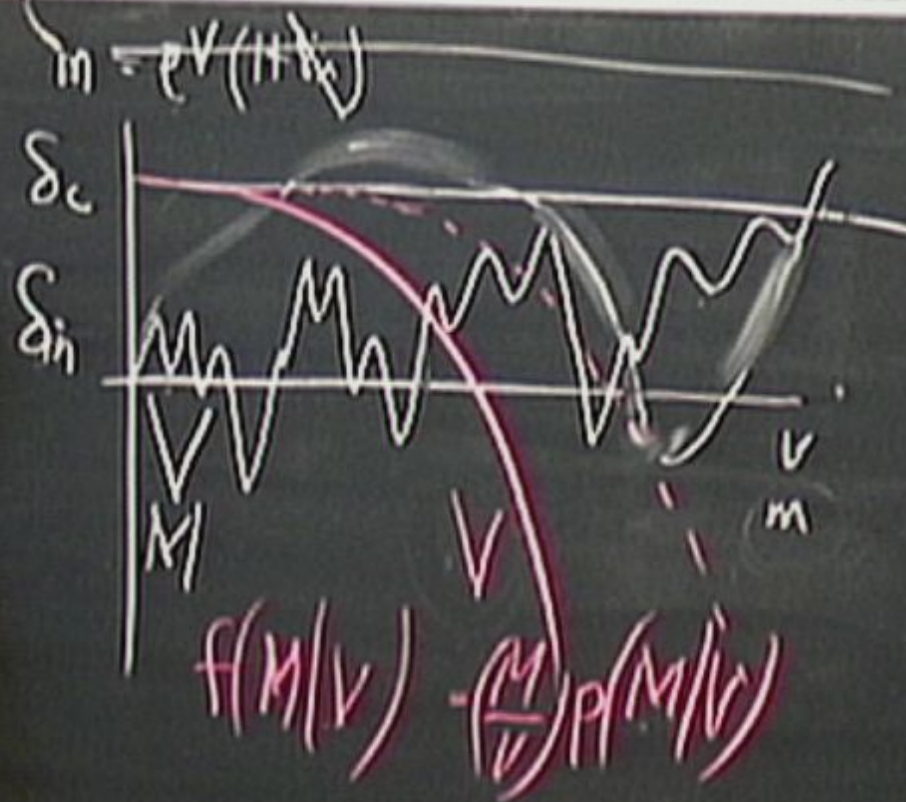
$$m = pV(1 + \frac{1}{\gamma})$$

(Bond et al 91)



$$\int (m, \delta_{\xi}) dm$$

$$= \frac{m n(m, \delta_{\xi}) dm}{\int m n(m) dm}$$



(Bond et al 91)

$$\int (m, \delta_e) dm$$

$$= \frac{m \int \rho(m, \delta_e) dm}{\rho \int m \rho(m) dm}$$

$$\delta_R(x)$$

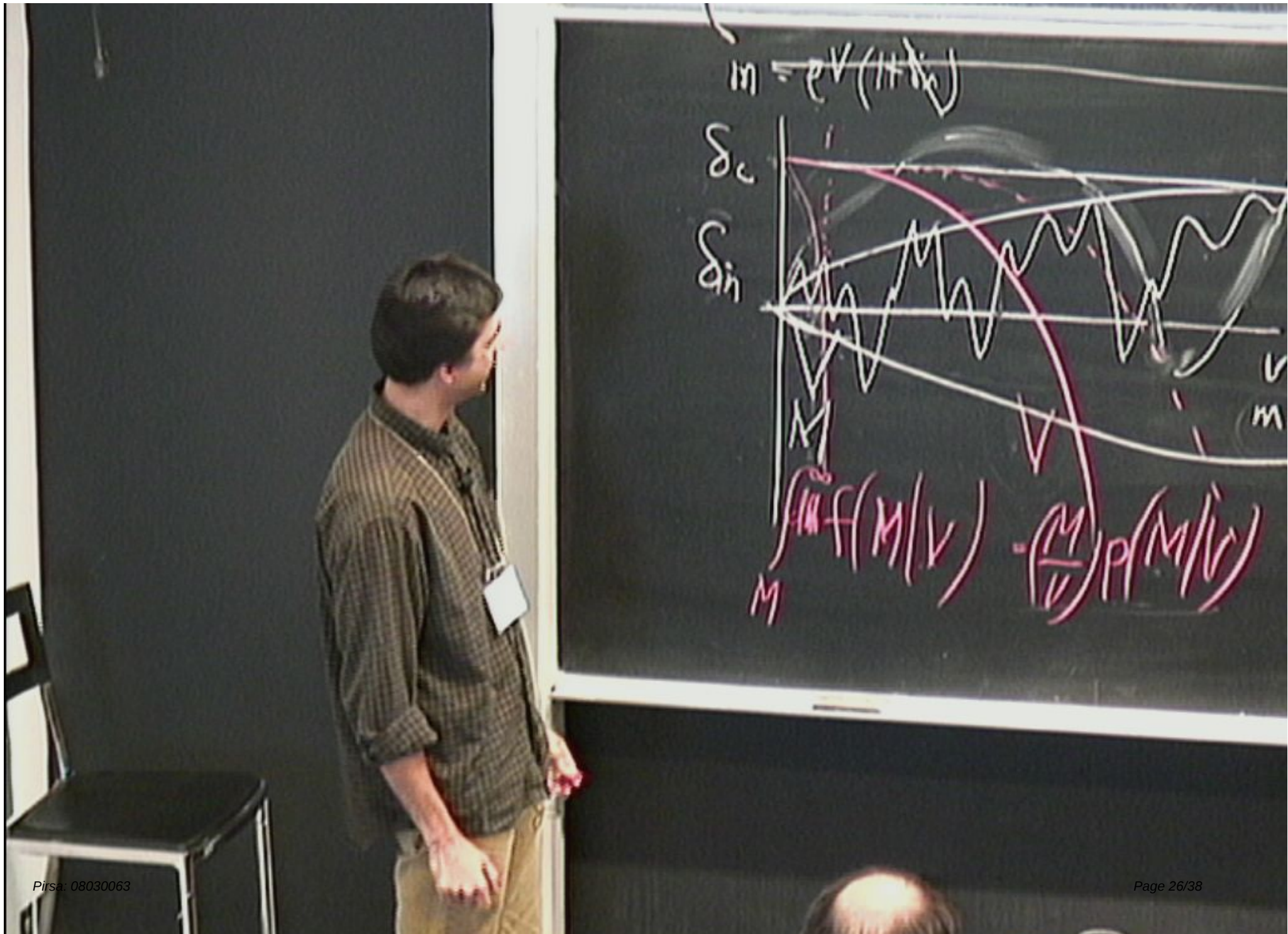
$$\delta_R(x) = \sum_R \delta_R W_R(x)$$

$$\delta_R(x) = \sum_R \delta_R W_R(x)$$



$$\delta_R(x) = \sum \delta_R W(R)$$

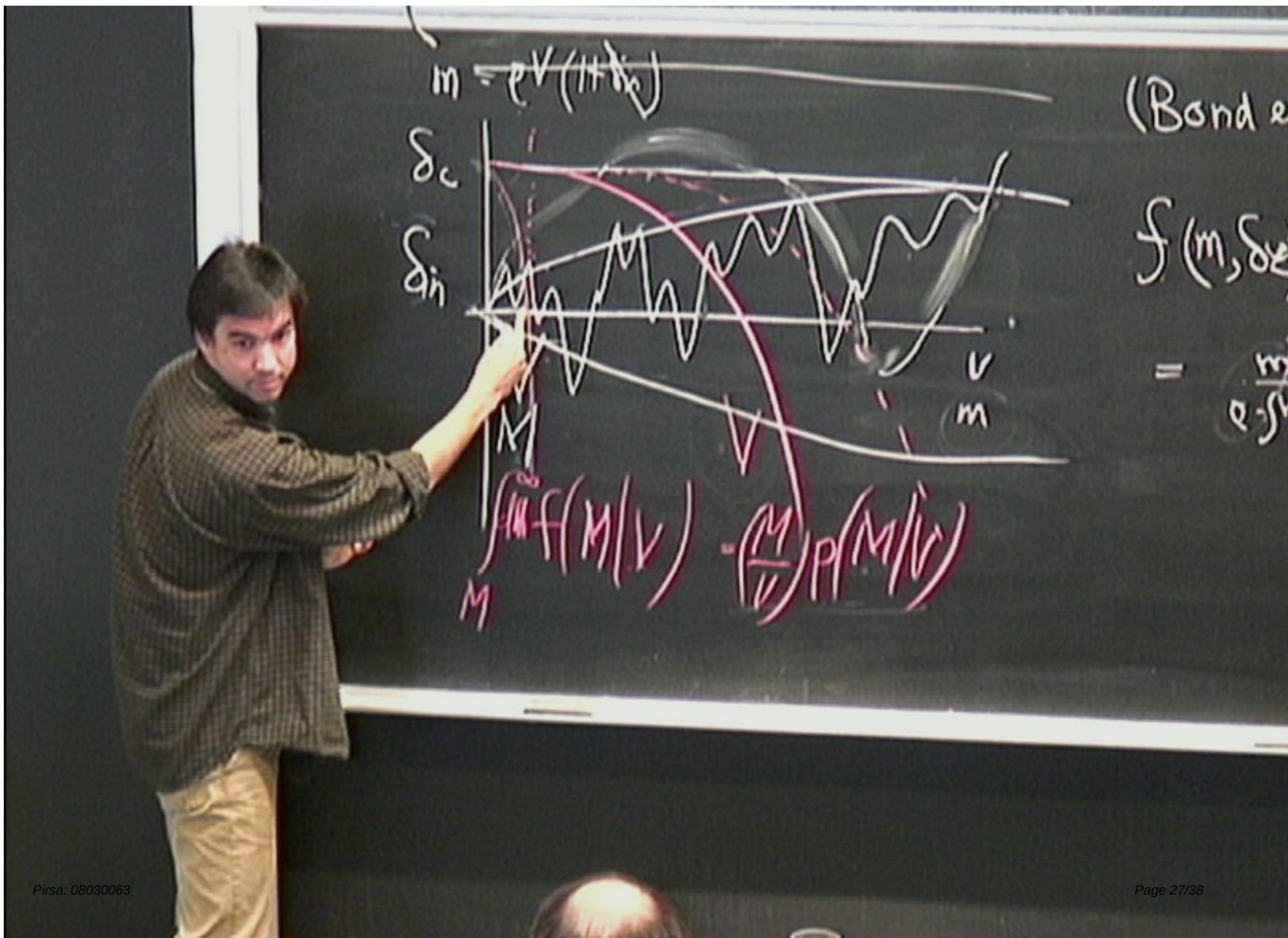




$$m = \rho V (1 + \frac{1}{2} \frac{v^2}{c^2})$$

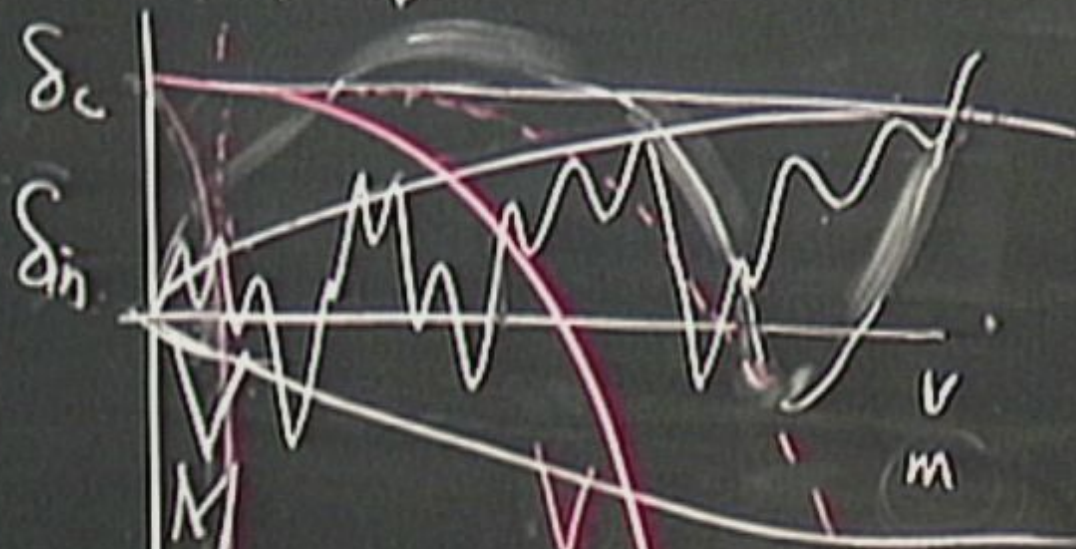


$$\int_0^{\infty} f(m/v) - \left(\frac{m}{v}\right) p(m/v)$$



$$m = \rho V (1 + \delta_c)$$

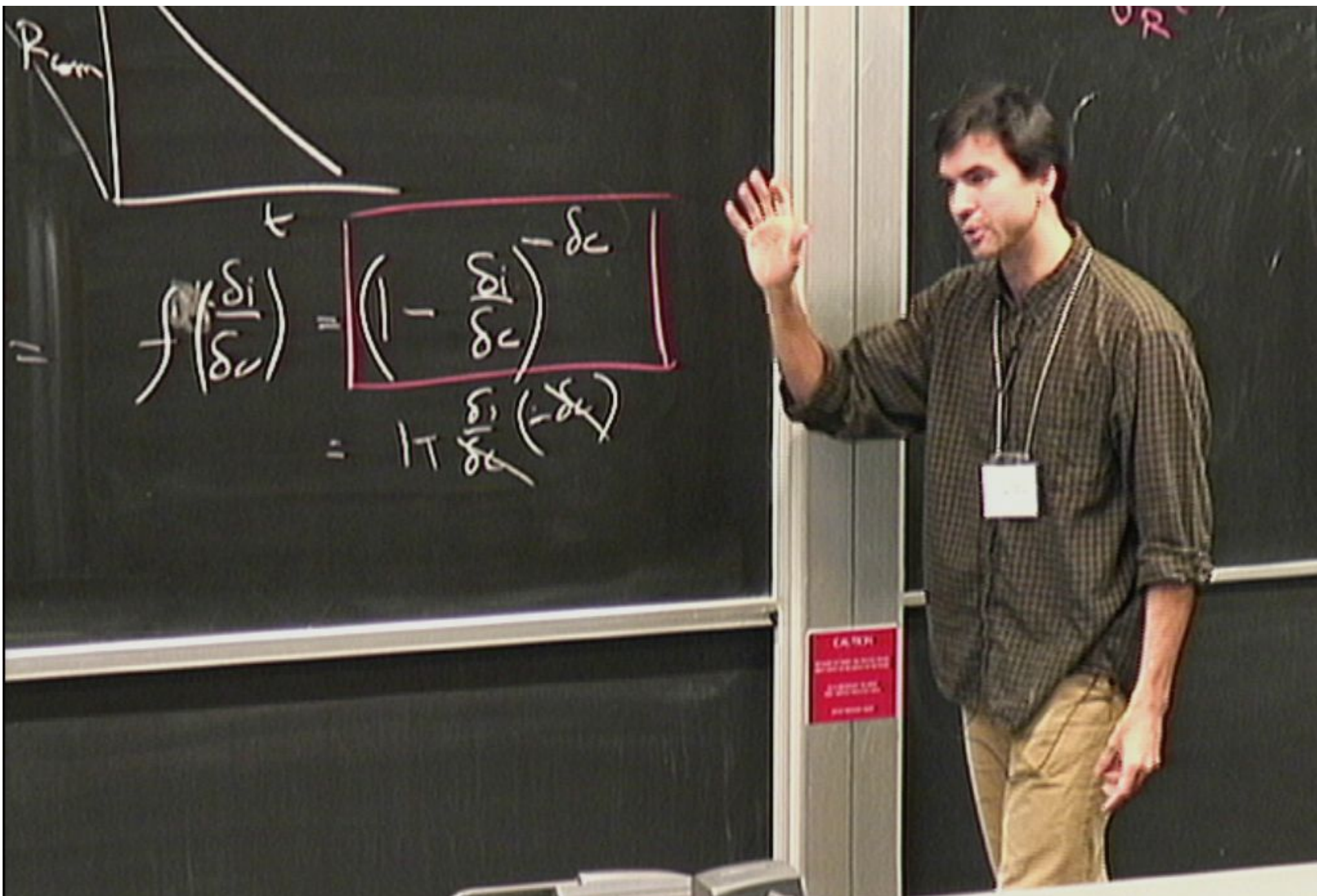
(Bond et al 91)



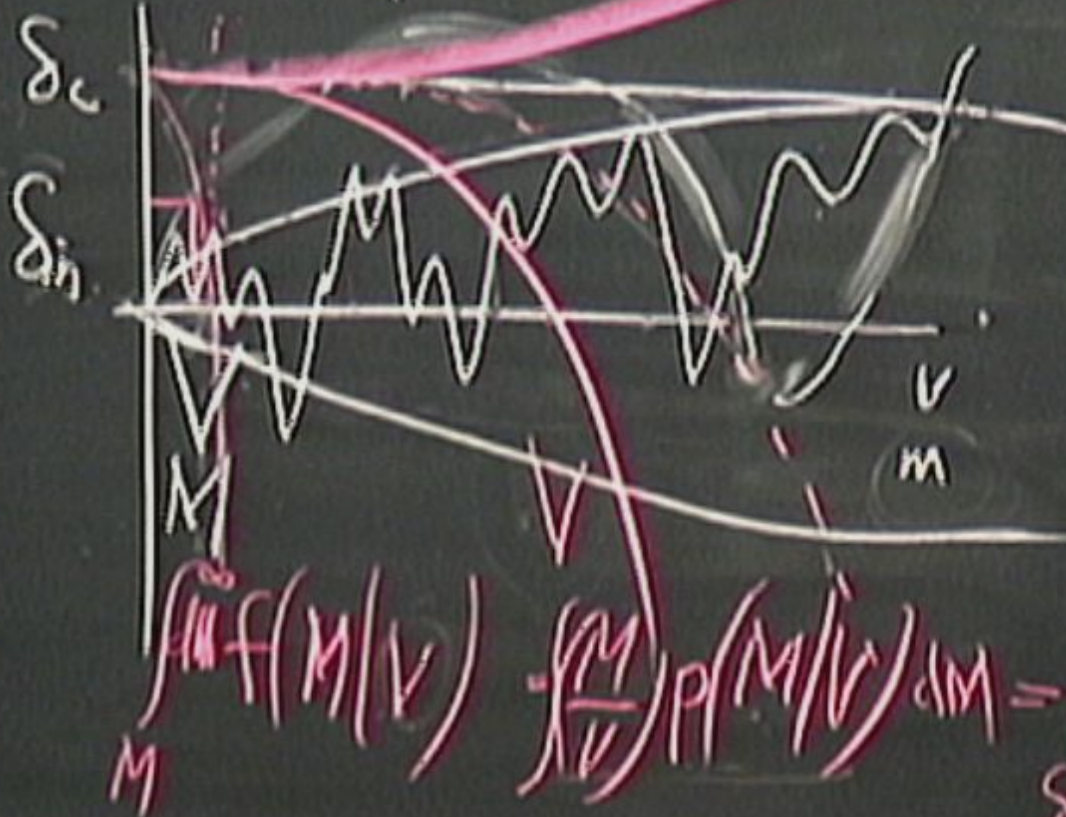
$$\int (m, \delta_c) dm$$

$$= \frac{m \rho (m, \delta_c) dm}{\rho \int m \rho(m) dm}$$

$$\int_M f(M/V) \frac{f(M)}{f(V)} P(M/V) dM = \int P(\delta_i | M) d\delta_i$$



$$m = \rho V (1 + \delta_c)$$



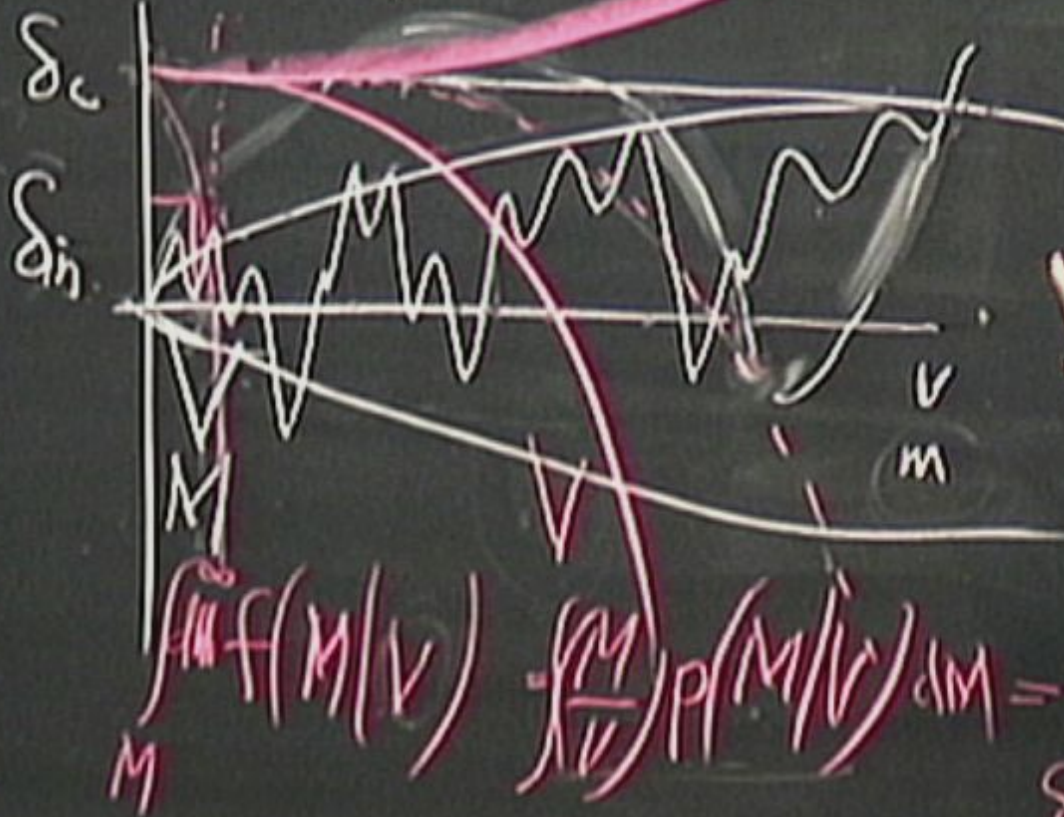
(Bond et al 91)

$$\int (m, \delta_c) dm$$

$$= \frac{m}{\rho \cdot \delta_c \cdot n}$$

$$\int_M f(m/V) \cdot \frac{m}{V} P(m/V) dm = \int_{\delta_c, V} P(\delta_c, V)$$

$$m = \rho V (1 + \delta_c)$$



(Bond et al 91)

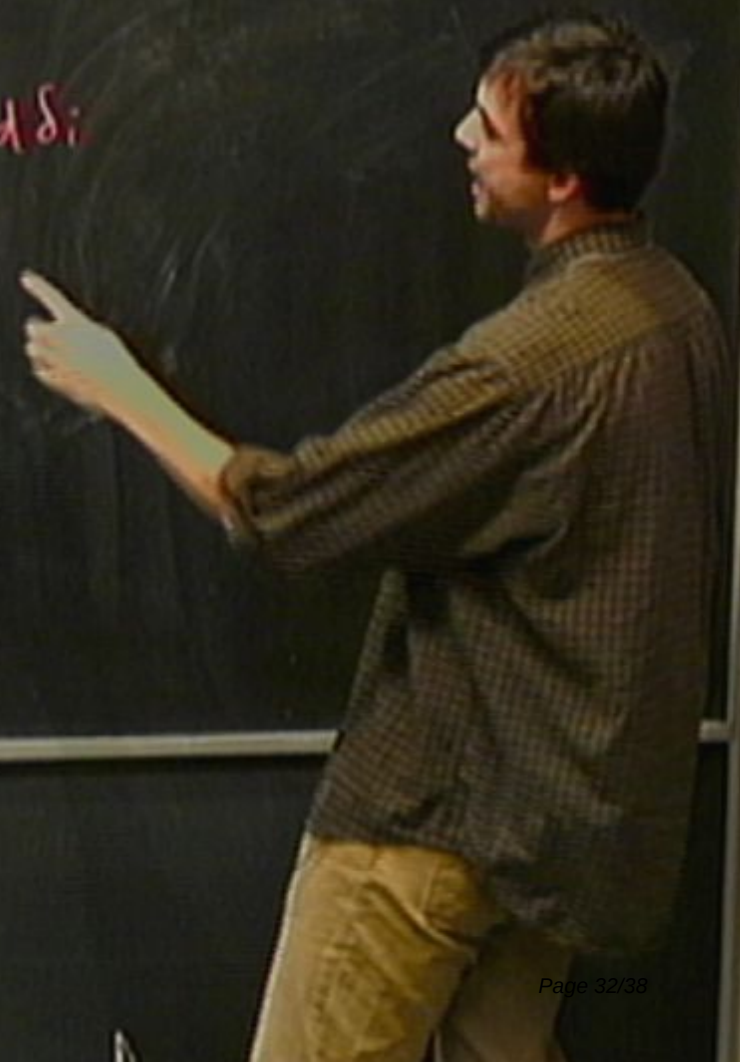
$$\int f(m, \delta_{in}) dm$$

$$= \int \frac{m}{\rho \cdot V} \cdot \left(\frac{m}{V} \right) P(M/V) dM$$

$$\delta_R(x) = \sum_R \delta_R W_R(x)$$



$$\int_{\delta_c}^{\infty} P(\delta_i) d\delta_i$$



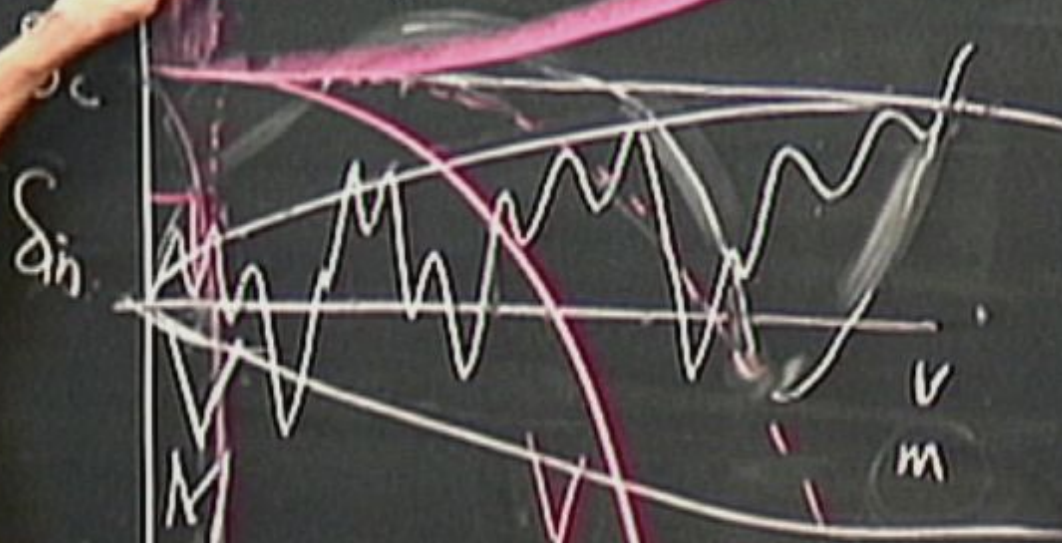
$$\delta_R(x) = \sum_R \delta_R W_R(x)$$



$$\int_{\frac{\delta_c}{\sigma_M}}^{\infty} P(\delta_i) d\delta_i$$

$m \sim V(1/\delta_i)$

(Bond et al 91)

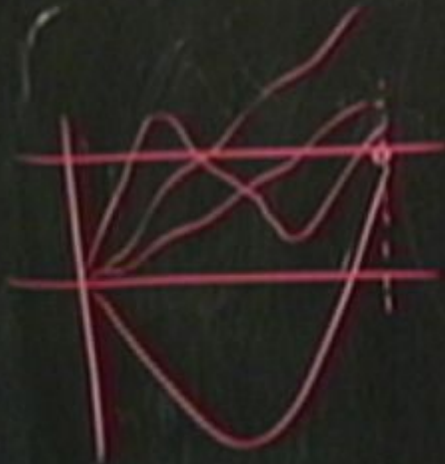


$$\int f(m, \delta_i) dm$$

$$= \frac{m \int n(m, \delta_i) dm}{\int n(m) dm}$$

$$\int_M f(M/V) \frac{P(M/V)}{V} dM = \int_{\delta_i(M,V)}^{\infty} P(\delta_i|M) d\delta_i$$

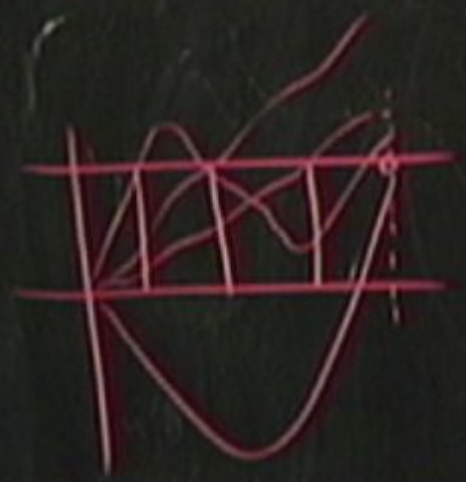
$$\delta_R(x) = \sum \delta_R W_R(x)$$



$$\int_0^{\infty} P(\delta) d\delta$$

$\frac{\delta c}{\sigma_M}$

$$\delta_R(x) = \sum_R \delta_R W(R)$$



$$\int_0^{\infty} P(\lambda) d\lambda$$

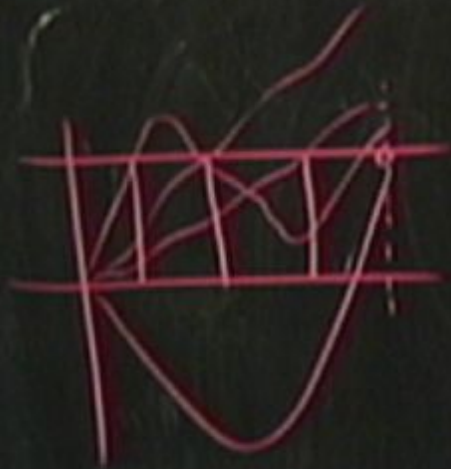
$\frac{\delta c}{\sigma_M}$

$$\sum \lambda_i$$

$$\sum_{i,j} \lambda_i \lambda_j$$



$$\delta_R(x) = \sum_R \delta_R W(R)$$



$$\int_{-\infty}^{\infty} P(\lambda) d\lambda$$

$\frac{\delta c}{\sigma_M}$

$$\sum \lambda_i \rightarrow \delta_i$$

$$\sum_{i \neq j} \lambda_i \lambda_j = \text{angular mom}$$

