

○ Primary a Inhomogeneity 33 号

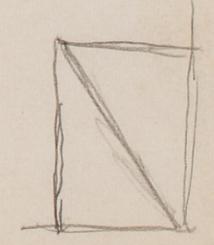
primary a energy distribution (unit time a cross 33 号)

$f(E') dE'$ , upper limit  $E_0$

$P(E, h) dE$   
 $P(E, E', h) dE \approx \frac{dE}{E} \frac{h}{\lambda(E)}$  for  $E > \frac{E'}{4}$

$P(E, h) dE = \int_{E_0}^{4E} f(E') P(E, E', h) dE' + \int_{4E}^{E_0} f(E) P(E, E', h) dE'$   
 $\approx \int_{E_0}^{4E} \frac{f(E') h}{E'} \frac{dE'}{\lambda(E)} + \int_{4E}^{E_0} f(E) \frac{h}{E} \frac{dE'}{\lambda(E)}$   
 $\approx \int_{E_0}^{4E} \frac{f(E') h}{E'} \frac{dE'}{\lambda(E)} + \int_{4E}^{E_0} f(E) \frac{h}{E} \frac{dE'}{\lambda(E)}$

$\approx \int_{E_0}^{4E} \frac{f(E') h}{E'} \frac{dE'}{\lambda(E)} + \int_{4E}^{E_0} f(E) \frac{h}{E} \frac{dE'}{\lambda(E)}$   
 $\approx \int_{E_0}^{4E} \frac{f(E') h}{E'} \frac{dE'}{\lambda(E)} + \int_{4E}^{E_0} f(E) \frac{h}{E} \frac{dE'}{\lambda(E)}$



$f(E) \approx \int_{E_0}^{4E} \frac{f(E') h}{E'} \frac{dE'}{\lambda(E)} + \int_{4E}^{E_0} f(E) \frac{h}{E} \frac{dE'}{\lambda(E)}$   
 $\approx \int_{E_0}^{4E} \frac{f(E') h}{E'} \frac{dE'}{\lambda(E)} + \int_{4E}^{E_0} f(E) \frac{h}{E} \frac{dE'}{\lambda(E)}$

3. 2次元の文、一方の方向に

$$c dE \frac{h}{\lambda'(E)}$$

