

E 28 030

DEPARTMENT OF PHYSICS
OSAKA IMPERIAL UNIVERSITY.

DATE
NO.

Shower Production By a Thin Layer

- 202
1) Carlson-Oppenheimer
2) Heit-Shakha-Heitler
3) Ferry
4) Watase, Nature 139, 671, 1937.
5) Froman and Stearns, Phys. Rev. 52, 382, 1937.
6) Heisenberg

$$n \chi = \frac{x_1 + x_2 + x_3 + \dots + x_n}{X}$$

$$\overline{\chi} = 0. \chi_1^2 + \chi_2$$

$$\overline{\chi^2} = \frac{(x_1 + x_2 + \dots + x_n)^2}{n^2} \approx \overline{x_1^2} + \chi$$

$$= \sum_{i=1}^n \overline{x_i^2} \approx 2n \left(\frac{mc^2}{E} \right)^2$$

$$\sqrt{\overline{\chi^2}} = \sqrt{2n} \cdot \frac{mc}{E},$$