第三号
（国沢清典 Mean Concentration Function と Typical Function VI P46～P47 間落丁一頁挿入）

従って

$$\eta_{n_i} M + \sum_{m=1}^{m_{n_i}} \left\{ 1 - F_{n_i m}(\eta_{n_i} A_{n_i}) \right\}$$

$$\geq \sum_{m=1}^{m_{n_i}} \left\{ \int_0^{\eta_{n_i} A_{n_i}} \frac{x}{A_{n_i}} \, dF_{n_i m}(x) + (1 - F_{n_i m}(\eta_{n_i} A_{n_i})) \right\}$$

$$\geq \sum_{m=1}^{m_{n_i}} \left\{ \int_0^{\eta_{n_i} A_{n_i}} \frac{x}{A_{n_i}} \, dF_{n_i m}(x) + \int_{\eta_{n_i} A_{n_i}}^{A_{n_i}} \frac{x}{A_{n_i}} \, dF_{n_i m}(x) \right\}$$

$$= \sum_{m=1}^{m_{n_i}} \int_0^{A_{n_i}} \frac{x}{A_{n_i}} \, dF_{n_i m}(x) \longrightarrow 0, \ (i \to \infty).$$

これは（4.2.11）と矛盾する．かくして $\eta_n A_n = C_n$ とおいて（4.2.10）を得る．逆に（4.2.12）より（4.2.3）と（4.2.13）が出るから

$$A_n = \sum_{m=1}^{m_n} \int_0^{C_n} x \, dF_{nm}(x)$$

とおけば

$$\frac{A_n}{C_n} = \sum_{m=1}^{m_n} \int_0^{C_n} \frac{x}{C_n} \, dF_{nm}(x) \xrightarrow[n \to \infty]{} 0$$

且つ

$$\sum_{m=1}^{m_n} \frac{1}{A_n} \int_0^{A_n} x \, dF_{nm}(x) = \sum_{m=1}^{m_n} \left\{ \frac{1}{A_n} \int_0^{C_n} x \cdot dF_{nm}(x) + \frac{1}{A_n} \int_{C_n}^{A_n} x \, dF_{nm}(x) \right\}$$

$$= 1 + o(1), \quad (n \to \infty)$$

が成立し、更に

$$\sum_{m=1}^{m_n} \left\{ 1 - \phi_{F_{nm}}(A_n) \right\} \leqq \sum_{m=1}^{m_n} \left\{ \int_0^{A_n} \frac{x^2}{A_n^2} \, dF_{nm}(x) + (1 - F_{nm}(A_n)) \right\}$$

$$= \frac{1}{A_n^2} \sum_{m=1}^{m_n} \left\{ -\int_{|x| > A_n} dF_{nm}(x) + 2 \int_0^{A_n} x \, dx \int_x^{\infty} dF(v) + (1 - F_{nm}(A_n)) \right\}$$