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$$\{w_n(x)\}_{n=1}^{\infty}$$

$$\sum_{m_1=1}^{\infty} \dots \sum_{m_n=1}^{\infty} a_{m_1, m_2, \dots, m_n} w_{m_1}(x_1) \dots w_{m_n}(x_n) \tag{1}$$

$$w_m(x) \in W = \{w_k(x)\}_{k=1}^{\infty}$$

$$a_{m_1, m_2, \dots, m_n} \geq a_{k_1, k_2, \dots, k_n} \quad m_i \leq k_i, \quad i = 1, 2, \dots, n \tag{2}$$

$$a_{m_1, m_2, \dots, m_n} \rightarrow 0 \quad m_1 + m_2 + \dots + m_n \rightarrow \infty \tag{3}$$

$$\sum_{m_1=1}^{\infty} \dots \sum_{m_n=1}^{\infty} a_{m_1, \dots, m_n}^p (m_1 \dots m_n)^{p-2} < \infty \tag{4}$$

$$1 < p < \infty$$

$$(2) \quad (3).$$

$$S_{m_1, \dots, m_n}(x_1, \dots, x_n) = \sum_{k_1=1}^{m_1} \dots \sum_{k_n=1}^{m_n} a_{k_1, \dots, k_n} w_{k_1}(x_1) \dots w_{k_n}(x_n) \tag{1}$$

$$\lim_{\min(m_1, \dots, m_n) \rightarrow \infty} S_{m_1, \dots, m_n}(x_1, \dots, x_n)$$

$$p > n$$

(1)

(2)-(4).

$(0,1)^n$

[1]

L_p

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[3]

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