

宇田雄一「古典物理学」

$e_{02}$ の定義:  $\forall n \in \mathbb{N}; \forall f \in F_{02, n}; \forall E \in F_3; \forall m \in \mathbb{R} (2 \times \{1, \dots, n\})$ ;

$$e_{02}(f, E, m) \Leftrightarrow [\exists f' \in F_{22}; [1] \text{ and } [2]]$$

[1]  $e_{22}(f', E)$

$$[2] \forall (\xi, i, 3) \in N_{22}; f'(\xi, i, 3) = \sum_{k=1}^n m(i, k) f(\xi, k, 3)$$

$e_{04}$ の定義:  $\forall n \in \mathbb{N}; \forall f \in F_{04, n}; \forall m \in \mathbb{R} (2 \times \{1, \dots, n\})$ ;

$$e_{04}(f, m) \Leftrightarrow [\exists f' \in F_{24}; [1] \text{ and } [2] \text{ and } [3]]$$

[1]  $e_{24}(f')$

$$[2] f'(N_3) = f(N_3)$$

$$[3] \forall (\xi, i, 3) \in N_{22}; f'(\xi, i, 3) = \sum_{k=1}^n m(i, k) f(\xi, k, 3)$$

$e_{05}$ の定義:  $\forall n \in \mathbb{N}; \forall f \in F_{04, n}; \forall m \in \mathbb{R} (2 \times \{1, \dots, n\})$ ;

$$e_{05}(f, m) \Leftrightarrow [\exists f' \in F_{24}; [1] \text{ and } [2] \text{ and } [3]]$$

[1]  $e_{25}(f')$

$$[2] f'(N_3) = f(N_3)$$

$$[3] \forall (\xi, i, 3) \in N_{22}; f'(\xi, i, 3) = \sum_{k=1}^n m(i, k) f(\xi, k, 3)$$

ただし、 $\hat{V}_{12}, \hat{V}_{14}$ は§2-3-Aで定義される。