

宇田雄一「古典物理学」

③ 平坦な時空の上での電気力学

$\forall n \in \mathbb{N}; \forall x \in F_{4,n}; \forall y \in F_5; \forall m \in \mathbb{R} (2 \times \{1, \dots, n\}); [1] \Rightarrow [2]$

[1]  $\forall (\xi, i, k, 4) \in N_5; y(\xi, i, k, 4) = \eta(i, k)$

[2]  $e_6(x, y, m) \Leftrightarrow e_5(x, m)$

④ 平坦な時空の上での電磁気学

$\forall x \in F_3; \forall y \in F_5; \forall n \in \mathbb{N}; \forall Y \in F_{2,n}; \forall q \in \mathbb{R} (\{1, \dots, n\}); [1] \Rightarrow [2]$

[1]  $\forall (\xi, i, k, 4) \in N_5; y(\xi, i, k, 4) = \eta(i, k)$

[2]  $e_3(x, Y, y, q) \Leftrightarrow e_3(x, Y, q)$

⑤ 平坦な時空の上での力学

$\forall y \in F_5; \forall n \in \mathbb{N}; \forall x \in F_{4,n}; \forall m \in \mathbb{R} (2 \times \{1, \dots, n\}); [1] \Rightarrow [2]$

[1]  $\forall (\xi, i, k, 4) \in N_5; y(\xi, i, k, 4) = \eta(i, k)$

[2]  $\hat{e}_6(\square, \square, \square; x, y, m) = 0 \Leftrightarrow \hat{e}_5(\square, \square, \square; x(N_{2,n}), x(N_3), m) = 0$