

המשפט - g פונקציה בלתי-אמצעית

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$$k^m = \left\{ \begin{array}{l} x \in M \\ \exists k \in K \end{array} \right\} \quad \text{כאשר } M \text{ הוא תת-חבורה של } K$$

$$(k^x)^m = \left\{ \begin{array}{l} \text{פונקציה } x \mapsto \text{פונקציה } k \\ \text{כאשר } x \in M \end{array} \right\}$$

ישו  $\exists$   $\alpha \in A$   $\exists$   $\beta \in B$   $\exists$   $\gamma \in C$   $\exists$   $\delta \in D$

$B = \{A, N\}$   $\exists$   $\delta \in M$   $\exists$   $\alpha \in A$   $\exists$   $\beta \in B$

$F: M \rightarrow K$   $M$

$\forall \alpha \in M \quad F(F)(\alpha) = g_\alpha$  (107)

$\forall \beta \in N \quad g_\beta(\alpha) = F(\alpha, \beta)$  (108)

$F, F_1, F_2$   $\exists$   $\delta \in M$

$F_1(\alpha, \beta) = F_2(\alpha, \beta)$  (109)

$g_1 \neq g_2 \Leftrightarrow g_1(\alpha) \neq g_2(\alpha)$  (110)

$F(F_1) \neq F(F_2) \Leftrightarrow F(F_1)(\alpha) \neq F(F_2)(\alpha)$  (111)

$F: M \rightarrow K$   $M$  112

$\exists \alpha \in M, \exists \beta \in N, \exists \gamma \in C, \exists \delta \in D$

$g(\alpha, \beta) = F(\alpha, \beta)$

$F: M \rightarrow K \times K$   $M$  (113)

$F(F) = (F_1, F_2)$  (114)

$F_1(\alpha) = \begin{cases} \text{פונקציה } \alpha \mapsto \beta \\ F(\alpha) \in K \end{cases}$  (115)

$F_2(\alpha) = \begin{cases} \text{פונקציה } \alpha \mapsto \gamma \\ F(\alpha) \end{cases}$

$F_1(\alpha) \neq F_2(\alpha)$  (116)

$F(\alpha) \neq g(\alpha)$  (117)

$F(F) \neq F(g)$  (118)

$F: M \rightarrow K$  119

$g: M \rightarrow K$

$h: M \rightarrow K \times K$   $\exists$   $(F, g)$  (120)

$h(\alpha) = (F(\alpha), g(\alpha))$  (121)



$(\text{GCH}) \Rightarrow (2^{\aleph_1}) = 2^{\aleph_2}$  ,  $\text{GCH} \Rightarrow 2^{\aleph_1} = 2^{\aleph_2}$

$\text{GCH}$

$2^{\aleph_1} = 2^{\aleph_2}$  ,  $\text{GCH} \Rightarrow 2^{\aleph_1} = 2^{\aleph_2}$

$K_1^{(\text{GCH})} = K_2^{(\text{GCH})}$  ,  $\text{GCH} \Rightarrow 2^{\aleph_1} = 2^{\aleph_2}$

$K_1 = 2 \Leftrightarrow K_2 = 2^{\aleph_1}$

$(K_1)^{\aleph_1} \geq (K_2)^{\aleph_1}$

$K_2^{\aleph_1} \leq K_1^{\aleph_1} = (2^{\aleph_1})^{\aleph_1} = 2^{\aleph_1 \cdot \aleph_1} = 2^{\aleph_1} \leq K_1^{\aleph_1}$

$K_2^{\aleph_1} = K_1^{\aleph_1}$

$2^{\aleph_1} = K_1^{\aleph_1} \Rightarrow 2^{\aleph_1} = K_1$

$K_1^{\aleph_1} = (2^{\aleph_1})^{\aleph_1} = 2^{\aleph_1} = K_1$

$K_1^{\aleph_1} = K_1 \Rightarrow 2^{\aleph_1} = K_1$

$2^{\aleph_1} \geq K_1 \Rightarrow 2^{\aleph_1} = K_1$

$2^{\aleph_1} \leq K_1^{\aleph_1} = K_1$

$2^{\aleph_1} = K_1$