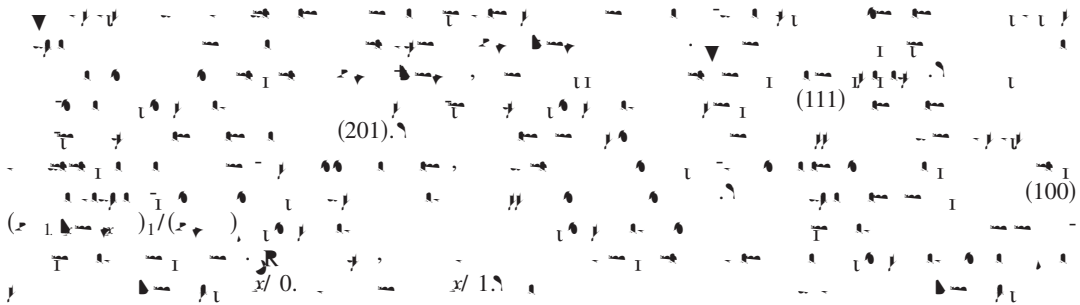


S a a (Ga, M)A : Ra a ,

I M ... E L G C 80401, A *
(R 1 200 200)



(, ,G)

$$\begin{aligned}
 & \text{...} \\
 & \text{...} \quad \Delta \dot{H}(x) = 0 \quad \text{I} \\
 & \text{...} \\
 & \text{(iii)} \quad \text{...} \quad (3) \quad \text{...}
 \end{aligned}$$

$$\sum_{\sigma \in \mathfrak{S}_n} |\Delta \hat{H}_{\sigma, \sigma} - \Delta \hat{H}_{\sigma, \sigma}|^2 + \frac{1}{\alpha} \sum J(\sigma) (\dots)^2 J(\sigma)$$

$$\frac{1}{2\alpha} \sum_{\sigma \in \mathfrak{S}_n} |\Delta \hat{H}_{\sigma, \sigma} - \Delta \hat{H}_{\sigma, \sigma}|^2 + \frac{1}{2\alpha} \sum_{\sigma \in \mathfrak{S}_n} D_{\sigma, \sigma} J_{\sigma, \sigma}^2$$
()

$J_{\sigma, \sigma}$
 α
 F
 $\mathcal{O}(10^2)$
 24
 (\dots)
 (\dots)
 (\dots)
 (\dots)
 (\dots)
 (\dots)

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4
 ()
 $4 \times 4 \times 4$
 $\Delta H_{y_1} / 2.04$, $\Delta H_{z_1} / 2.4$
 ()
 32
 (x_1)
 (x_2) (301)
 0.2
 0.2
 $\Delta H_{y_1}(\sigma)$

$$\Delta H_{y_1}(x) / \langle \Delta H_{y_1}(\sigma) \rangle. \quad (13)$$

$\Delta H_{y_1} / 41.32$, $\Delta H_{z_1} / 40.04$
 ()
 $x_1 = 0$
 (x_1)
 (100)
 (110) (x_2)
 $\Delta H_{y_1} / 22.33$, $\Delta H_{z_1} / 23.00$
 $\Delta H_{y_1} / 30.00$, $\Delta H_{z_1} / 32.04$
 () ()
 2

C. T a a

(13)
 $x/0$
 (4) $\Omega_1 / 2 \cdot 3$, $\Omega_2 /$
 $3 \cdot 0$, $\Omega_3 / 23$
 (4) 33

$$\Delta G(x) / \Omega_1 x(1-x) + \Omega_2 x^2(1-x) + \Omega_3 x^3(1-x) + \dots [x_1(x) + (1-x)(1-x)], \quad (14)$$

where

$$\sqrt{\sum_{\sigma=1}^4 |\Delta \hat{H}_{z_1}(\sigma) - \Delta \hat{H}_{y_1}(\sigma)|^2} \quad (12)$$

0.2 , 1.34

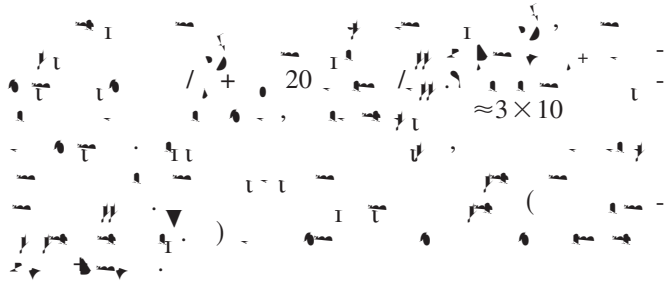
D. $T=0$

a

a

a

$\rightarrow \rightarrow \rightarrow \rightarrow$



E. S

a



$(x_1, x_2, x_3) = (x_1, x_2, x_3)$
 (100) (111)
 (110) (201)
 $(x_1, x_2, x_3) = (x_1, x_2, x_3)$
 $x_1, x_2, x_3 \in \{0, 1, 2\}$
 $(100), (111), (201)$

(3)
 $(x_1, x_2, x_3) = (x_1, x_2, x_3)$
 (100) (111)
 (201)
 $(x_1, x_2, x_3) = (x_1, x_2, x_3)$
E. E
 a a a
 E_1 E_2 E_3
 10

$(\frac{1}{2}, \frac{1}{2}, 0)_1 / (\frac{1}{2}, \frac{1}{2}, 0)_1$, ...

$(0, \frac{1}{2}, 0)_1 / (\frac{1}{2}, \frac{1}{2}, 0)_1$, ...

111_I (100)

(100), (110),

(111)

$(\frac{1}{2}, \frac{1}{2}, 0)_2 / (\frac{1}{2}, \frac{1}{2}, 0)_1$, ...

(201)

(201)

0.3

0.2, 0.2, 0.2, 0.2, -434, -434, .1, 3-434, 3-434, 2
 22, 0 22 4 0.+04 123 - .3 - 10 2 / 1 * ,442 11 1.42 10 3 / 3

