

☼ · ψ L M 'E[~]

⌘ Hψ M ñ ψ =

ê 'E[~] Ì Ì 'E[~] ⌘ · ψ L M 'E[~]

G 2022 4 11 9 ~ 'E[~] Hψ[~] ψ η r Hǎ[~] η r H
~ ψ ~ γ Ñ ' ~

̄ ā ~ ê ⌘ G 2022 ̄ h ū Ĩ

ṛ ' ~

1 ā ū Ğ ʟ

ŭ

⌘

~

ʎ ⌘

1.00 "H Â

ŭ ʟ 4,000' ^ ʟ 4,000' ~ ʟ ʟ 80,000

' "H ʟ 80,000' "H~ Â

2 ā ū Ğ

'E[~]

ŭ

⌘

Ğ v̄

~ Ì ʟ v̄

ʟ

30,000' "H ū ⌘ 'E[~] L ⌘ ψ ǫ ' Ì ϕ ⌘ ~ ŭ

⌘

Đ

Â

ŭ ʟ

ʟ π ǫ

Â

3 ā ū E

ŭ E

⌘

||

' ā'E[~]

ʎ ā'E[~]

ā'E[~]

∞ Ğ

' ~

ʟ ŭ

' ~

ʟ

∞ ā

E Â

4 ā ʟ ' ̄

$7\tilde{a} \quad \tilde{u} \quad \tilde{a} \quad \% \quad H_u \quad ,$
 $\tilde{u} \quad \parallel \tilde{E}^x \quad K_{\cdot} \quad 200_{\cdot} \quad \tilde{u} \quad \tau \quad \psi \quad \% \hat{A}$
 $\tilde{E}^x \quad \tau \quad \tau \quad b \quad U^{\sim} \quad \tilde{u} \quad \tau \quad \rho \quad ,$
 $H_u \psi \tilde{a} \quad K \quad \psi \quad \hat{A}$
 $= \quad ,$
 $\square \quad \psi \ 6 \quad , \quad \tilde{u} \quad \psi \ 0 \quad , \quad \psi \ 0 \quad \sim \quad 1 \quad \hat{A}$

$H_u \tilde{a} \quad \sim \hat{e}^{\tau} \ G \quad K \tilde{E}^x \quad \cdot \ 2 \quad \tilde{I}$
 $\rho \quad ,$
 $\psi \tilde{H} \quad \tilde{E}^x \quad \sim \quad \gamma \tilde{E}^x \quad \sim \quad \tilde{E}^x \quad O^{\sim} \quad K \ _q$
 $\tilde{\omega} \quad \psi \tilde{E}^x \quad \vdash \quad \cdot \quad \sim \quad K \quad H_u \psi \quad H \quad H_u \psi \ K$
 $H \quad \hat{A}$
 $= \quad ,$
 $\square \quad \psi \ 7 \quad , \quad \tilde{u} \quad \psi \ 0 \quad , \quad \psi \ 0 \quad \sim \quad 0 \quad \hat{A}$

$\odot \quad \cdot \quad \psi \quad L \quad M \quad \tilde{E}^x$
 $H_u \psi$
 2022 4 11