

$P\grave{h}PSP^{\circ}P\gg P\ddot{e}P\cdot P\grave{i}P_sPIP_{\mu}P_rP_{\mu}PSP\ddot{e}C\Pi PSP_{\mu}P\gg P\ddot{e}PSP_{\mu}P\mathbb{N}^{\circ}PSP_sP\mathbb{N}^{\circ}P_rP\ddot{e}$

$P^{\circ}C\grave{r}CC\grave{r}P_{\mu}PIP^{\circ}P\check{y}P^{\circ}C,0CH\grave{C}\Pi PSP^{\circ}PP_rP\ddot{e}C\Delta P_sPSP_sPIPSP^{\circ},4P_{\epsilon}C\Delta C\grave{B}C\grave{A}$

$P\grave{K}P^{\circ}C\grave{r}C\ddagger PSC<P\mathbb{N}^{\circ}$

$C\grave{B}C\grave{r}P_{\epsilon}P_sPIP_sP_rP\ddot{e}C,P_{\mu}P\gg CH : P_rP_sP_{\epsilon}C,0P_sC\grave{B} C,,P\ddot{e}P\Delta. - P_jP^{\circ}C,0. PSP^{\circ}C\Delta P_{\epsilon},P\grave{i}C\grave{B}P_sC,,P_{\mu}C\grave{A}C\grave{A}$

P',\mathbb{R}^6

$C\grave{B}P^{\circ}C\acute{I}C\acute{I}P_jP^{\circ}C,C\grave{B}P\ddot{e}PIP^{\circ}P_{\mu}C,0C\grave{A}C\Pi PSP_{\mu}P\gg P\ddot{e}PSP_{\mu}P\mathbb{N}^{\circ}PSP_sP_{\mu}P_rP\ddot{e}C,,C,,P_{\mu}C\grave{B}P_{\mu}PSC\ddagger P\ddot{e}P^{\circ}P\gg C$

$- P_jP^{\circ}C,C\grave{B}P\ddot{e}C\ddagger P^{\circ},F(x) - PIP_{\mu}P_{\epsilon}C,0P_sC\grave{B} - C,,C\Delta PSP_{\epsilon}C\ddagger P\ddot{e}C\Pi (F(0) = 0, \|F(x)\| = O(\|x\|))$

$PiP\gg P^{\circ}P_rP_{\epsilon}P_s P\cdot P^{\circ}PIP\ddot{e}C\acute{I}C\Pi C, P_sC, C\acute{I}PIP_sP\ddot{e}C... P^{\circ}C\grave{B}P\grave{i}C\grave{r}P_jP_{\mu}PSC,0P_sPIP\grave{i}C\grave{B}P\ddot{e}0$

$\leq \varepsilon \leq \varepsilon_0, \|x\| \leq x_0.$

$P_{\Pi}C\grave{B}P_{\mu}P_rP\grave{i}P_sP\gg P^{\circ}P_iP^{\circ}P_{\mu}C,0C\grave{A}C\Pi, C\ddagger C,0P_sC\Delta P_sP\pm C\grave{A}C,0PIP_{\mu}PSPSC<P_{\mu}P\Delta PSP^{\circ}C\ddagger P_{\mu}PSP\ddot{e}C\Pi$

$P\ddot{e}P_jP_{\mu}C\grave{B}C,0PIP\ddot{e}P_r\lambda_j(\varepsilon) = \tau_j(\varepsilon) \pm i\omega_j(\varepsilon) \ (\tau_j(0) = 0, \omega_j(0) = \omega_j > 0, i = \sqrt{-1}, j = 1, 2, 3),$

$P^{\circ} P_jP_{\mu}P\blacklozenge P_rC\Delta PIP_{\mu}P\gg P\ddot{e}C\ddagger P\ddot{e}PSP^{\circ}P_jP\ddot{e}\omega_j$

$PIC<P\grave{i}P_sP\gg PSC\Pi P_{\mu}C,0C\grave{A}C\Pi C\grave{B}P_{\mu}P\Delta P_sPSP^{\circ}PSC\Delta PSP_sP_{\mu}C\Delta P_sP_sC,0PSP_sCP_{\mu}PSP\ddot{e}P_{\mu}\omega_1 = 2\omega_2 - \omega$

$PP\cdot C\grave{r}C\ddagger P^{\circ}P_{\mu}C,0C\grave{A}C\Pi P\grave{i}P_sPIP_{\mu}P_rP_{\mu}PSP\ddot{e}P_{\mu}C\grave{B}P_{\mu}CP_{\mu}PSP\ddot{e}P\mathbb{N}^{\circ}C\Delta C\grave{B}P^{\circ}PIPSP_{\mu}PSP\ddot{e}C\Pi PIC,,P\ddot{e}P_{\epsilon}C$

$P^{\circ}C<P\grave{i}P_sP\gg PSP_{\mu}PSP^{\circ}PSP_sC\grave{B}P_jP^{\circ}P\gg P\ddot{e}P\Delta P^{\circ}C\ddagger P\ddot{e}C\Pi C\Delta P\ddot{e}C\grave{A}C,0P_{\mu}P_jC<C\Delta C\grave{B}P^{\circ}PIPSP_{\mu}PSP\ddot{e}P\mathbb{N}^{\circ}(1$

$P - P_rP_{\mu}C\grave{A}CHz_j = x_j + iy_j -$

$P_{\epsilon}P_sP_jP\grave{i}P\gg P_{\mu}P_{\epsilon}C\Delta PSP_sP\Delta PSP^{\circ}C\ddagger PSC<P_{\mu}P\grave{i}P_{\mu}C\grave{B}P_{\mu}P_jP_{\mu}PSPSC<P_{\mu} \ (j =$

$1,2,3),|z|^2 = |z_1|^2 + |z_2|^2 + |z_3|^2, a_{jk}(\varepsilon) = b_{jk}(\varepsilon) + ic_{jk}(\varepsilon) \ P_iP\gg P^{\circ}P_rP_{\epsilon}P\ddot{e}P_{\mu}C,,C\Delta PSP_{\epsilon}C\ddagger P\ddot{e}P\ddot{e}0$

$\leq \varepsilon \leq \varepsilon_0.$

$P' \ (??)$

$PIC<P\grave{i}P_sP\gg PSP_{\mu}PSP^{\circ}P\Delta P^{\circ}P_jP_{\mu}PSP^{\circ}P\grave{i}P_{\mu}C\grave{B}P_{\mu}P_jP_{\mu}PSPSC<C...z_j = \rho_j e^{i\omega_j\tau_j} \ (j = 1, 2, 3),$

$PIPIP_{\mu}P_rP_{\mu}PSC<"P_jP_{\mu}P_rP\gg P_{\mu}PSPSC<P_{\mu}" \ P\grave{i}P_{\mu}C\grave{B}P_{\mu}P_jP_{\mu}PSPSC<P_{\mu}\rho_j \ (j = 1, 2, 3), \ \Theta = -\omega_1\tau_1 -$

$P\ddot{e} \ "P\pm C<C\grave{A}C,0C\grave{B}C<P_{\mu}" \ P\grave{i}P_{\mu}C\grave{B}P_{\mu}P_jP_{\mu}PSPSC<P_{\mu}\tau_1, \tau_2. \ P'$

$C\acute{I}P\ddot{e}C\acute{I}C,P_{\mu}P_jP_{\mu}"P_jP_{\mu}P_rP\gg P_{\mu}PSPSC<C..." \ P\grave{i}P_{\mu}C\grave{B}P_{\mu}P_jP_{\mu}PSPSC<C...PIC<P\grave{i}P_sP\gg PSP_{\mu}PSC<$

$P\ddot{e} \ PIC\grave{B}P_{\mu}P_jC\Pi t \rightarrow \varepsilon^{-1}t.$

$P\grave{h}C,PSP_sC\acute{I}P\ddot{e}C,P_{\mu}P\gg CH\mathbb{P}SP_sP_{\epsilon}P_sC\grave{A}C,C,,P\ddot{e}C\ddagger P\ddot{e}P_{\mu}PSC,0P_sPI" P_iP\gg P^{\circ}PIPSP_sP\mathbb{N}^{\circ}C\ddagger P^{\circ}C\grave{A}C,0P\ddot{e}" \ C$

$P_{\Pi}P_sP_{\epsilon}P^{\circ}P\cdot P^{\circ}PSP_s, C\ddagger C,P_s \ PI$

$C\grave{r}C\grave{B}P^{\circ}PIPSP_{\mu}PSP\ddot{e}C\Pi C..."P_jP_{\mu}P_rP\gg P_{\mu}PSPSC<C..." \ P\grave{i}P_{\mu}C\grave{B}P_{\mu}P_jP_{\mu}PSPSC<C...PIP_sP\Delta P_jPs$

$P\check{y}P\grave{i}P\ddot{e}C\acute{I}P_sP_{\epsilon} P\gg P\ddot{e}C,P_{\mu}C\grave{B}P^{\circ}C,0C\Delta C\grave{B}C<$

1. $P_{\mathbb{H}}P_sP\gg C\ddagger P^{\circ}PSP_sPI \ P\grave{h}.P_{\mathbb{H}}. \ PJC\acute{I}C,P_sP\mathbb{N}^{\circ}C\ddagger P\ddot{e}PIP_sC\acute{I}C,CH\mathbb{P} \ PI$

$C\acute{I}P\gg C\grave{r}C\ddagger P^{\circ}P_{\mu}PSP_{\mu}P\mathbb{N}^{\circ}C,0C\grave{B}P^{\circ}P\gg CH\mathbb{P}SP_sC\grave{A}C,0P\ddot{e}P\gg P\ddot{e}PSP_{\mu}P\mathbb{N}^{\circ}PSP_sP\grave{i}P_sP\grave{i}C\grave{B}P\ddot{e}P\pm P\gg P\ddot{e}P\blacklozenge P_{\mu}P$