

$$\gamma\Big[\bar{\Psi}+\beta\Big[2\big(\nabla\times\bar{\Psi}\big)-\beta\nabla^2\bar{\Psi}\Big]\Big]\frac{\partial^2\mathrm{T}}{\partial t^2}+\alpha\Big[\bar{\Psi}+\beta\big(\nabla\times\bar{\Psi}\big)\Big]\frac{\partial\mathrm{T}}{\partial t}-\nabla^2\bar{\Psi}\mathrm{T}=0$$