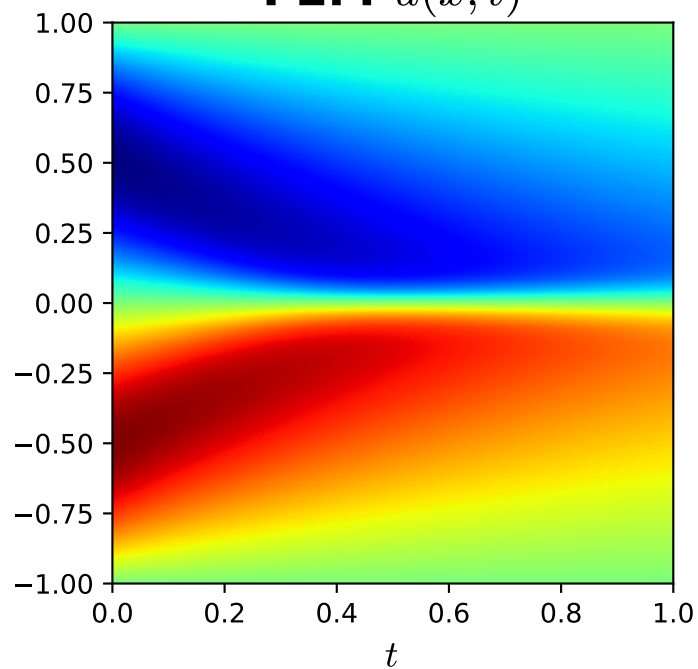
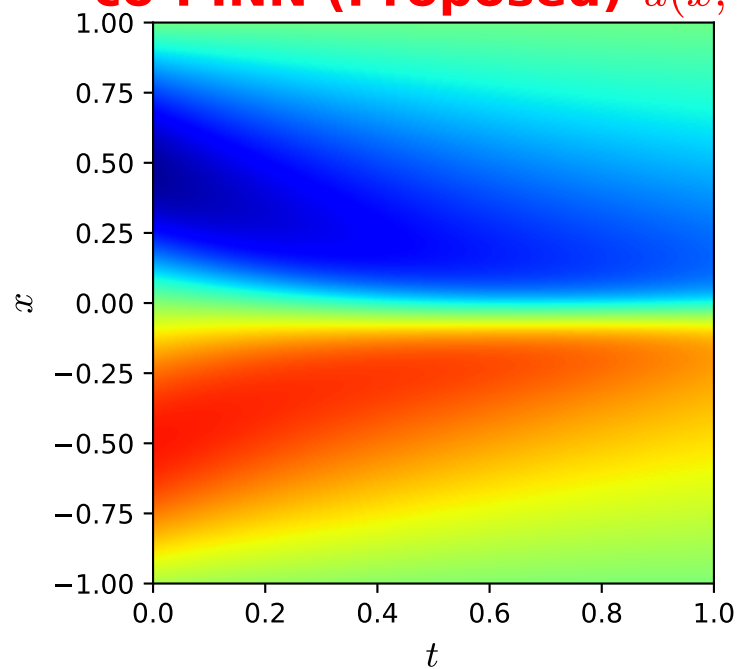
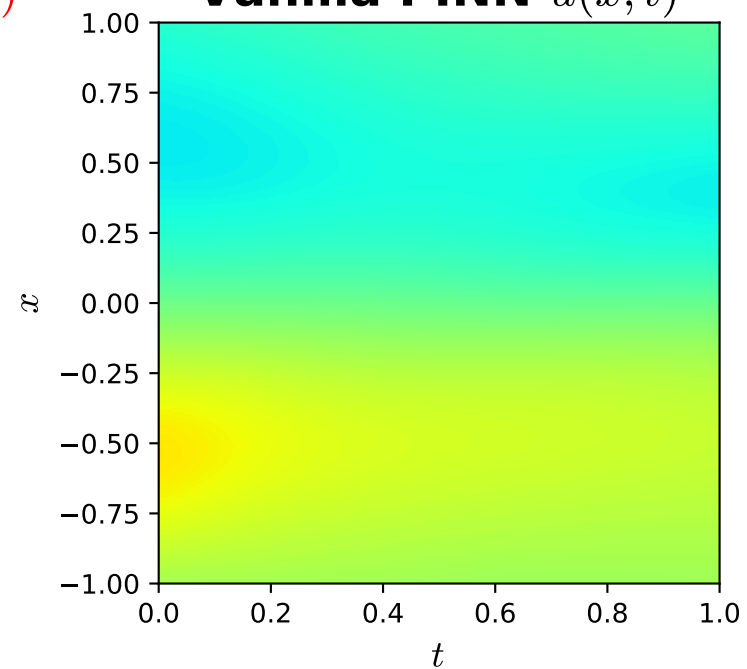
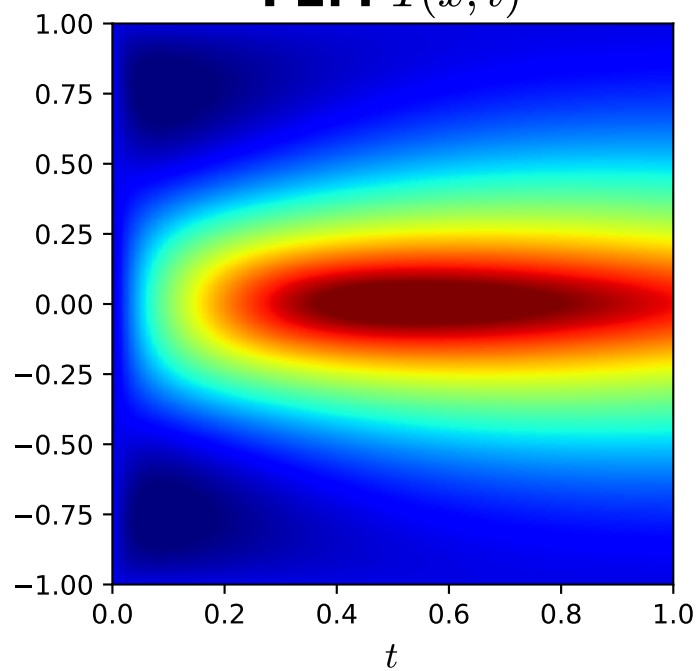
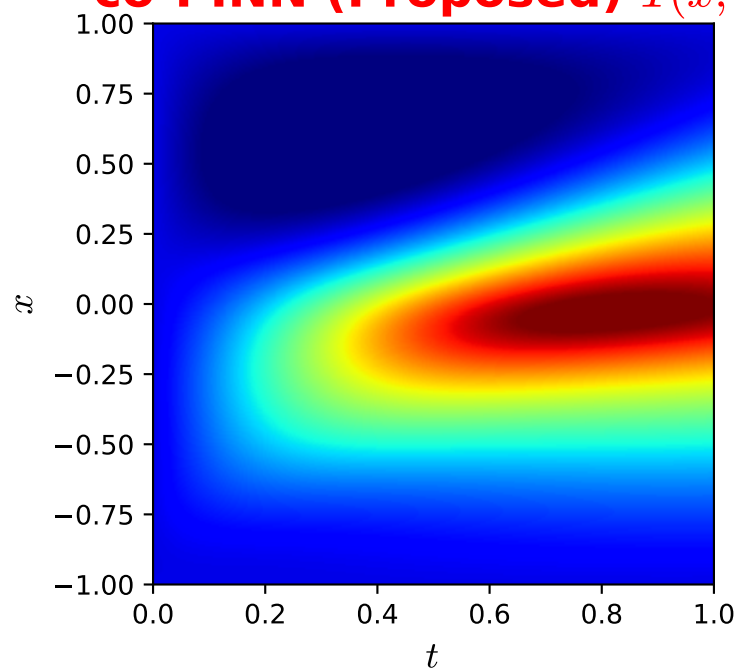


**FEM**  $u(x, t)$ **co-PINN (Proposed)**  $u(x, t)$ **Vanilla PINN**  $u(x, t)$ **FEM**  $T(x, t)$ **co-PINN (Proposed)**  $T(x, t)$ **Vanilla PINN**  $T(x, t)$ 