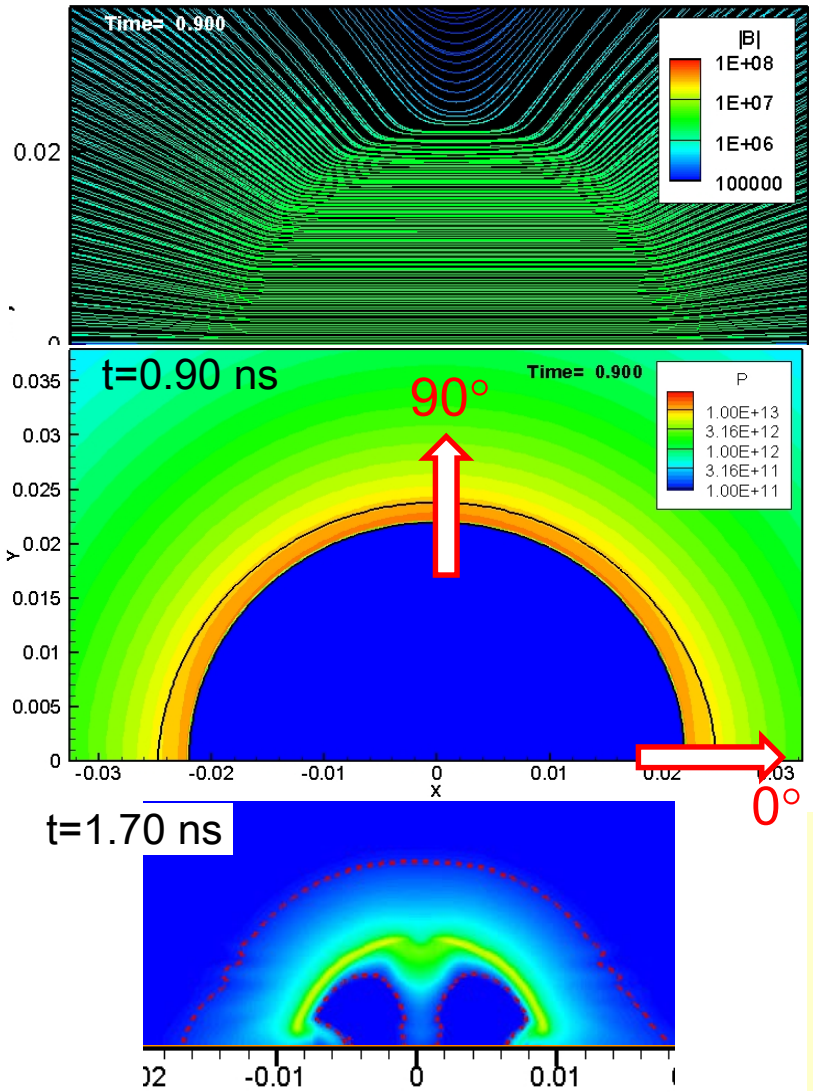
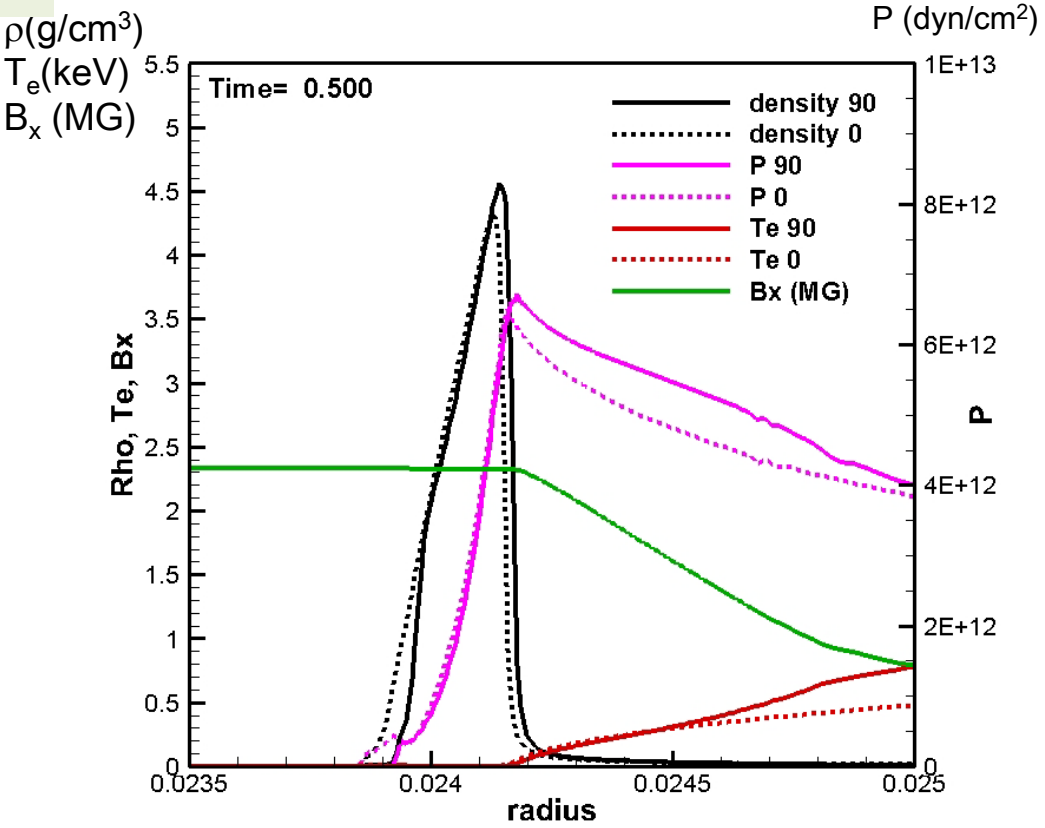
Implosion dynamics under the extremely high magnetic field is studied for fast ignition.(IFE/P6-6: H. Nagatomo ILE Osaka Univ.)

B-field and P at t=0.90 in the acceleration phase, and ρ at t=1.70 ns in the stagnation phase.



ρ, P and T_e at the cross section on 0° and 90°.



Higher ablation pressure is observed at the ablation surface parallel to the magnetic field lines. The thermal conduction is inhibited at the 90° direction because the ∇T is perpendicular to the magnetic field direction. That cause the hydrodynamic instability.