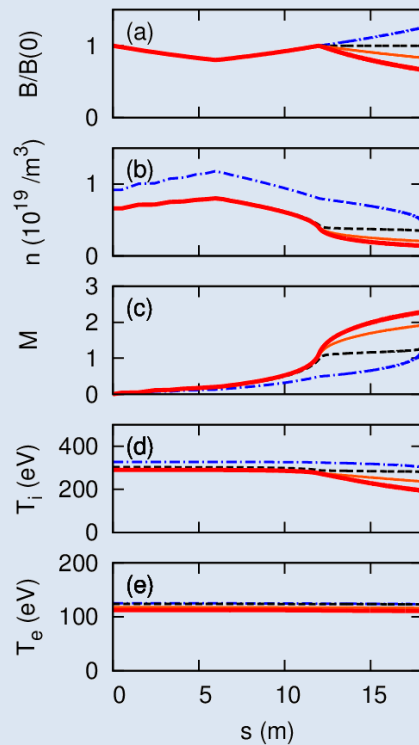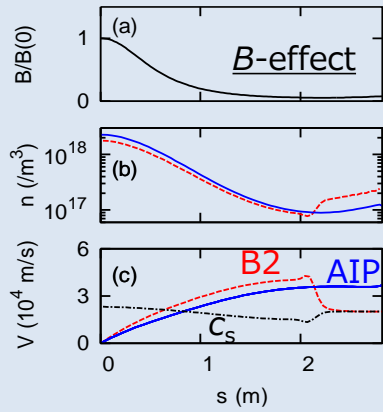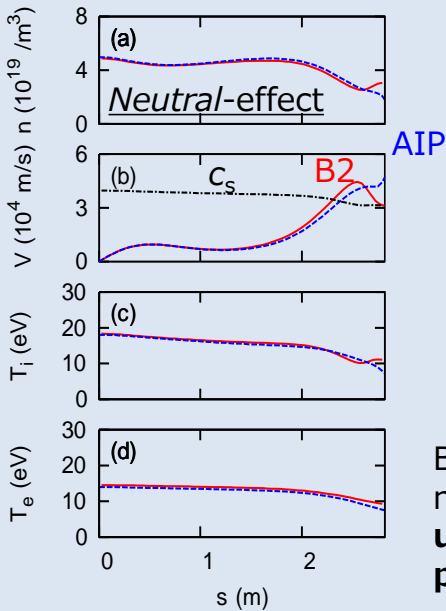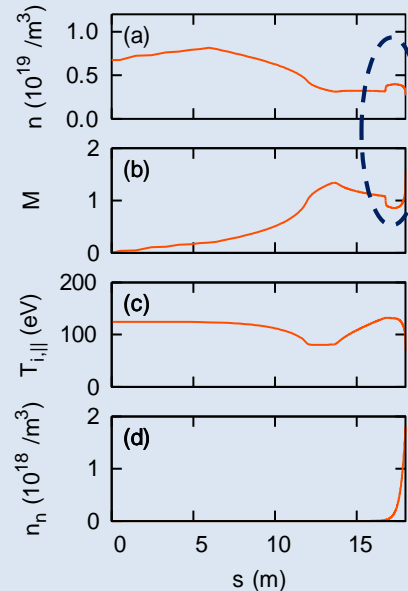# SOL/Divertor Plasma Simulation of Diverging Magnetic Field Configurations for Advanced Divertors
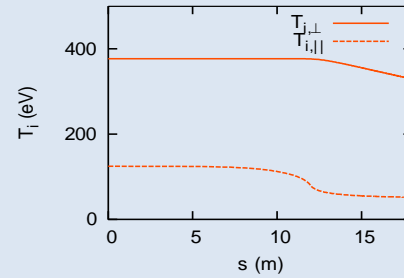
AIP model (anisotropic ion pressures are incorporated in the plasma fluid model) can simulate **the supersonic flow smoothly** even in highly anisotropic ion temperature plasmas.

Shock front is also observed in the AIP model by the neutral effect.

Braginskii's plasma fluid model can generate **unphysical plasma flow profiles**.

Therefore, the AIP model is beneficial to simulate the performance of advanced divertors like a super-X divertor.