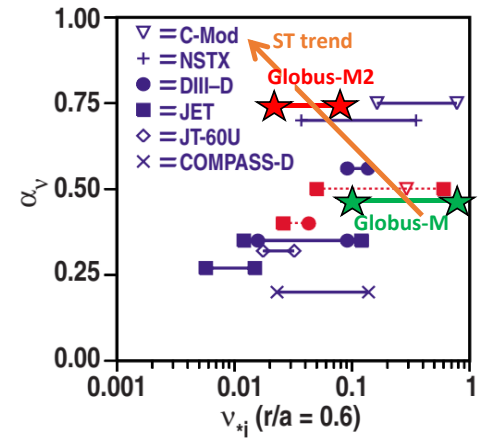
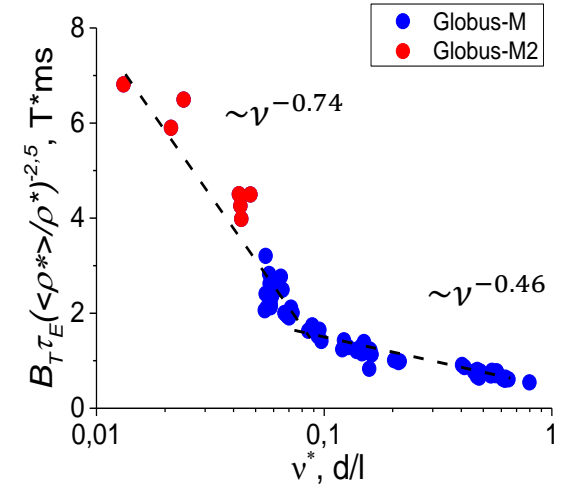
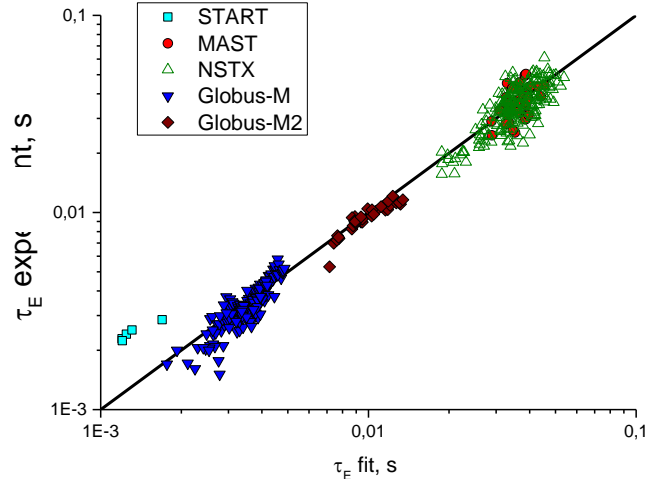
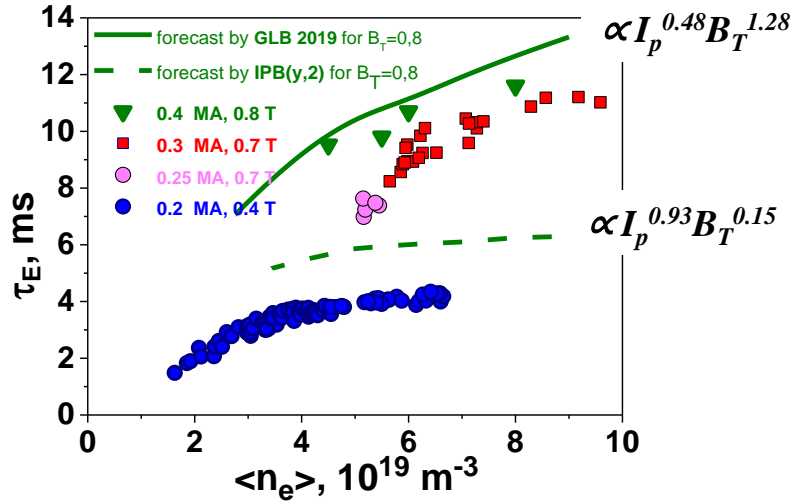


Summary slide, Globus-M2, EX-P7 659

$$\tau_E^{scal} = 0,066 \cdot I_p^{0.53} \cdot B_T^{1.05} \cdot P_{abs}^{-0.58} \cdot n_e^{0.65} \cdot R^{2.66} \cdot \kappa^{0.78}, s$$



C. C. Petty Phys. Plasmas 15, 080501 (2008);

- Strong τ_E dependence on B_T and moderate on I_p is valid for spherical tokamak with $B_T = 0,8$ T
- A twofold B_T increase in the Globus-M2 enhances the synergistic effect of improving both electron and ion heat transport with decreasing collisionality that led to 3-fold rise of τ_E
- Experiments carried out on the Globus-M2 demonstrate strengthening of the confinement dependence on collisionality for lower ν^* range in STs, opposite to high aspect ratio tokamaks