3D two fluid plasma model of filaments using STORM on self-consistent parallel background profiles was extended to include a fluid neutral model.

Fig. 1 Shows the observed strong dependence of the radial velocity of critical sized filaments on target temperature.

Plasma density was increased to achieve detached background profiles.

Detachment has strong influence on filament dynamics, and the target temperature dependence only holds in attached conditions.

Detachment is stable for medium sized L-mode filaments.