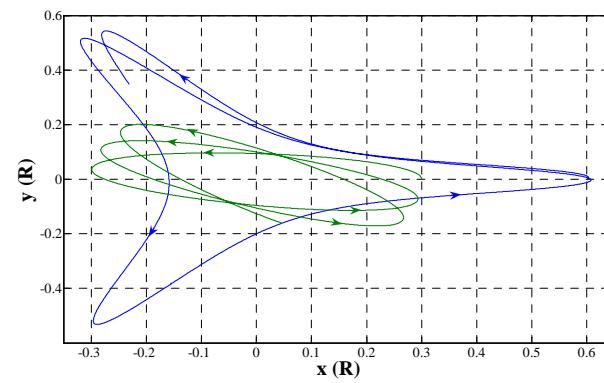
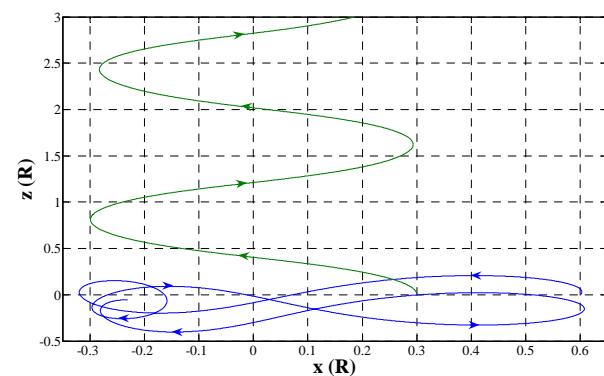
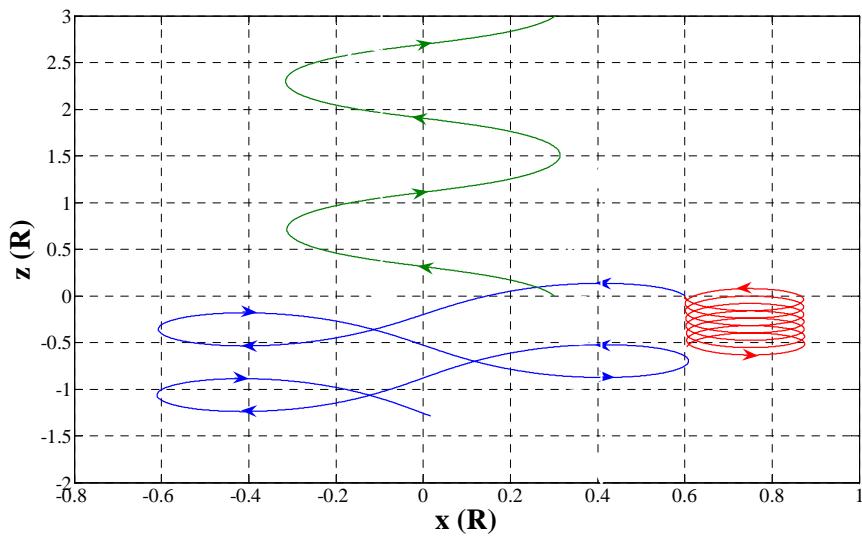
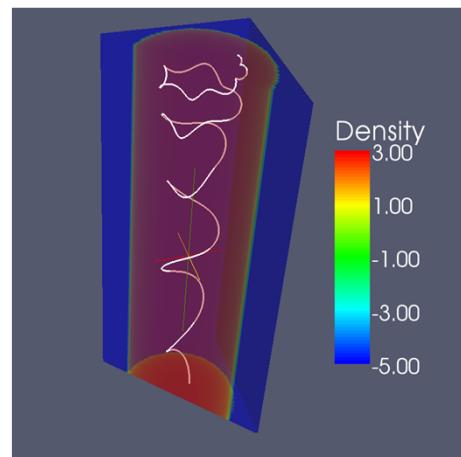


# Alpha dynamics



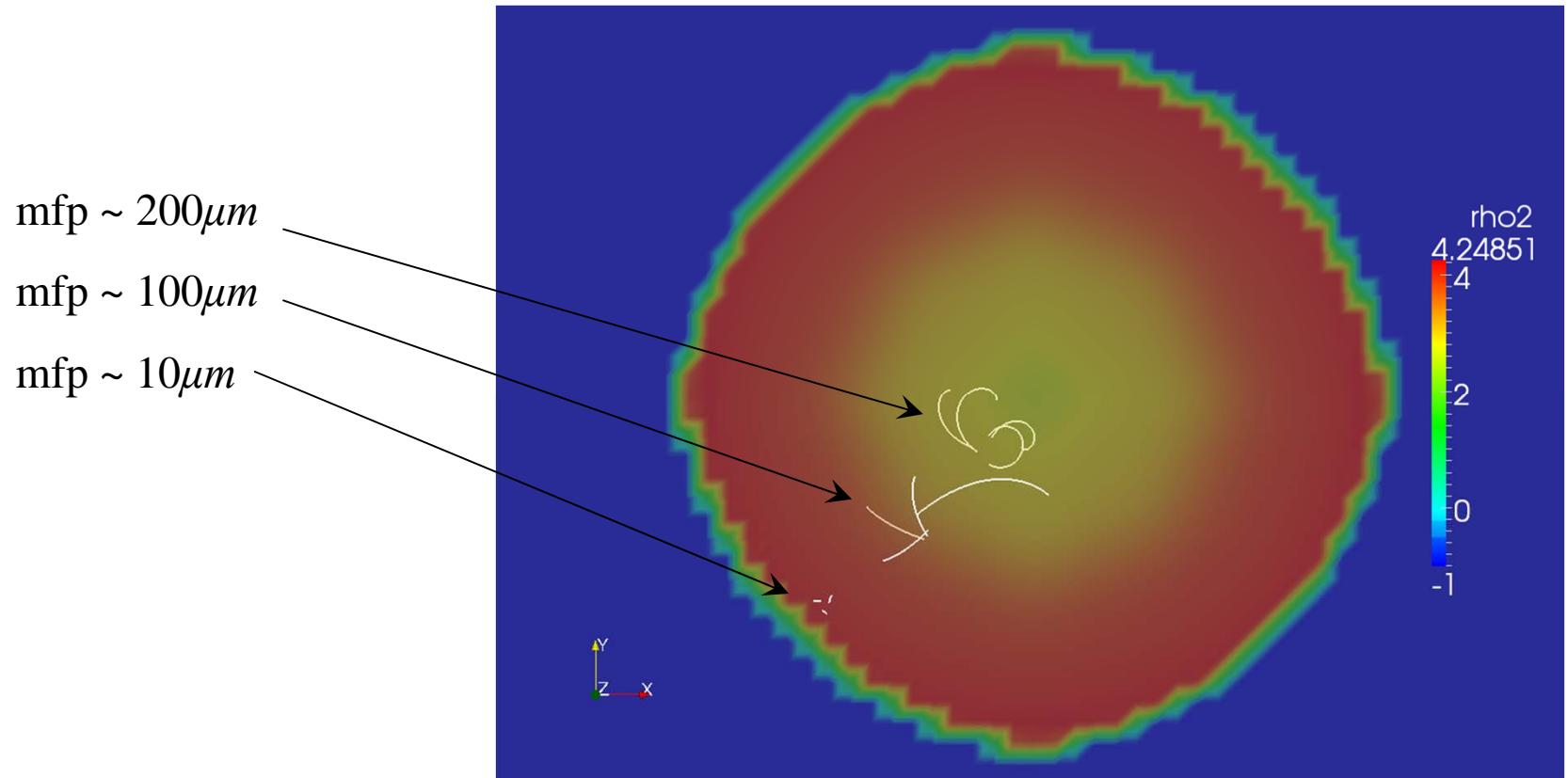
# Alpha dynamics

$R = 0.5\text{mm}$ .

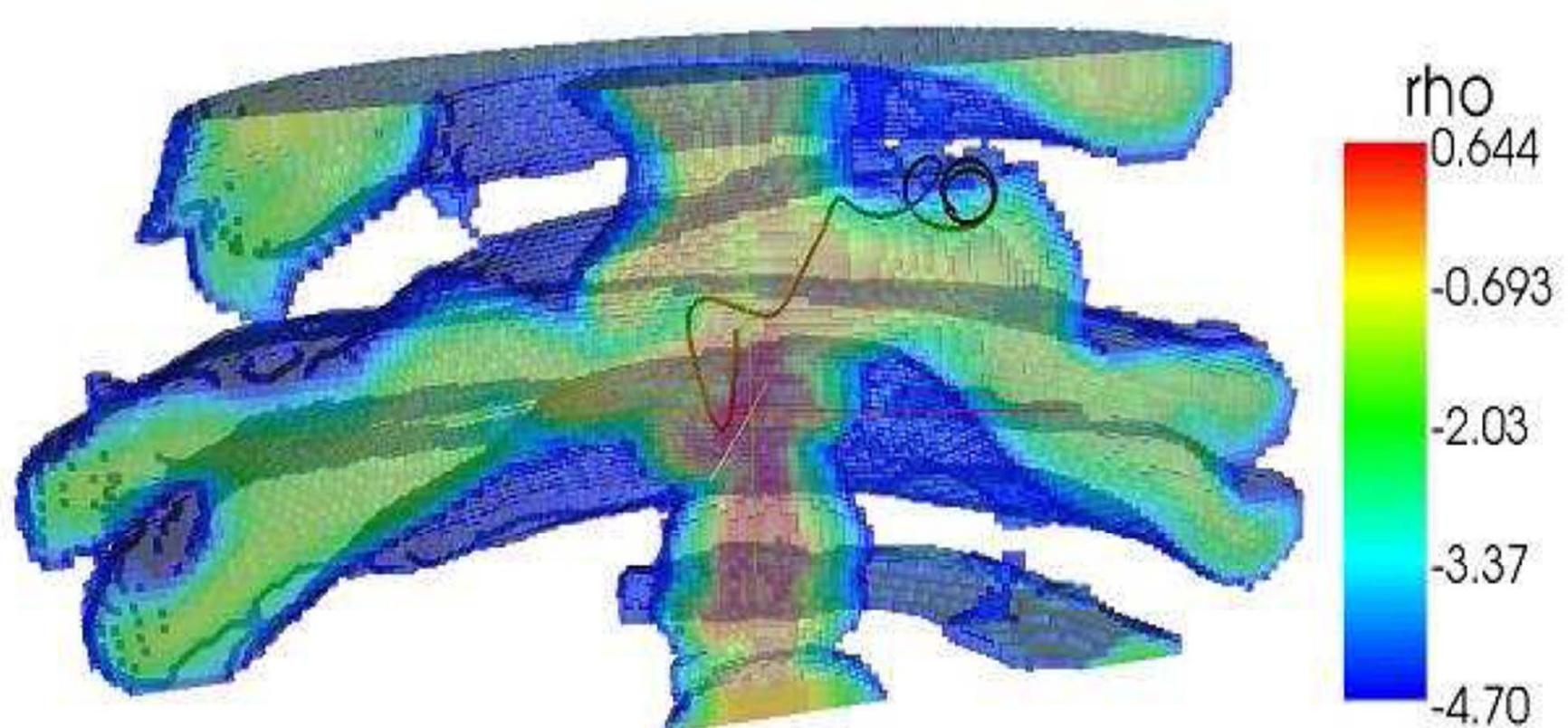
Mean free paths decrease with  $R$ ,  $B$  fields less important for confinement.

Dense DT edge prevents alpha particles from penetrating liner.

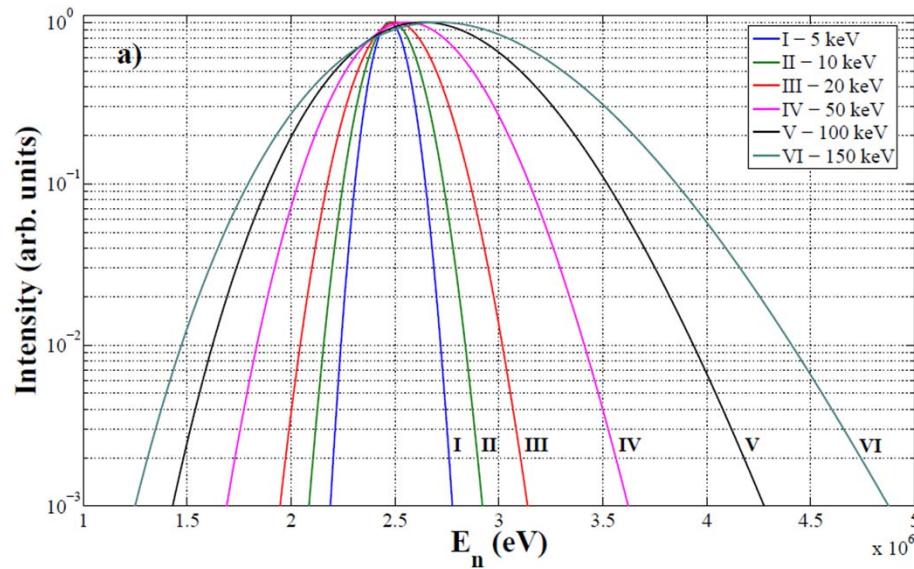
Yield for kinetic model and local heating model are similar ( $\sim 200 \text{ MJ/m}$ ).



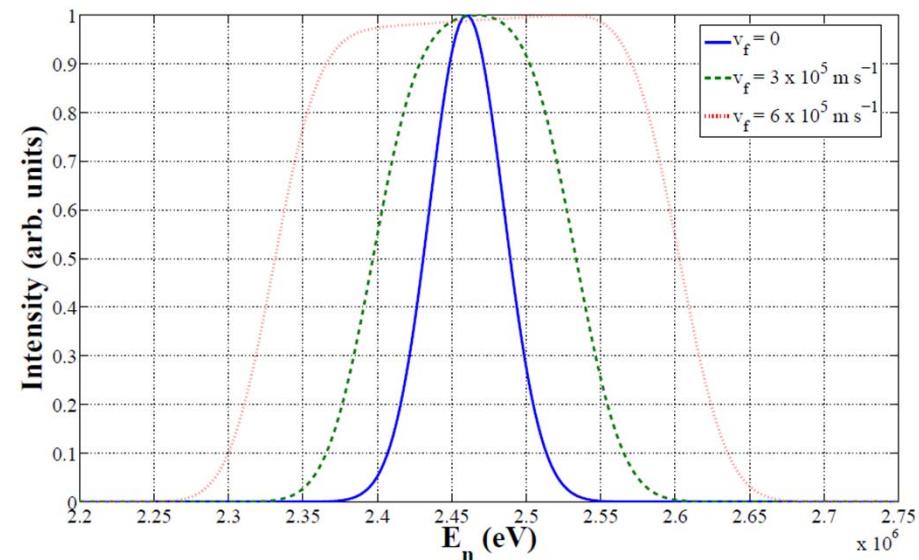
# Fast ions in deuterium gas puff



# Neutron Spectra



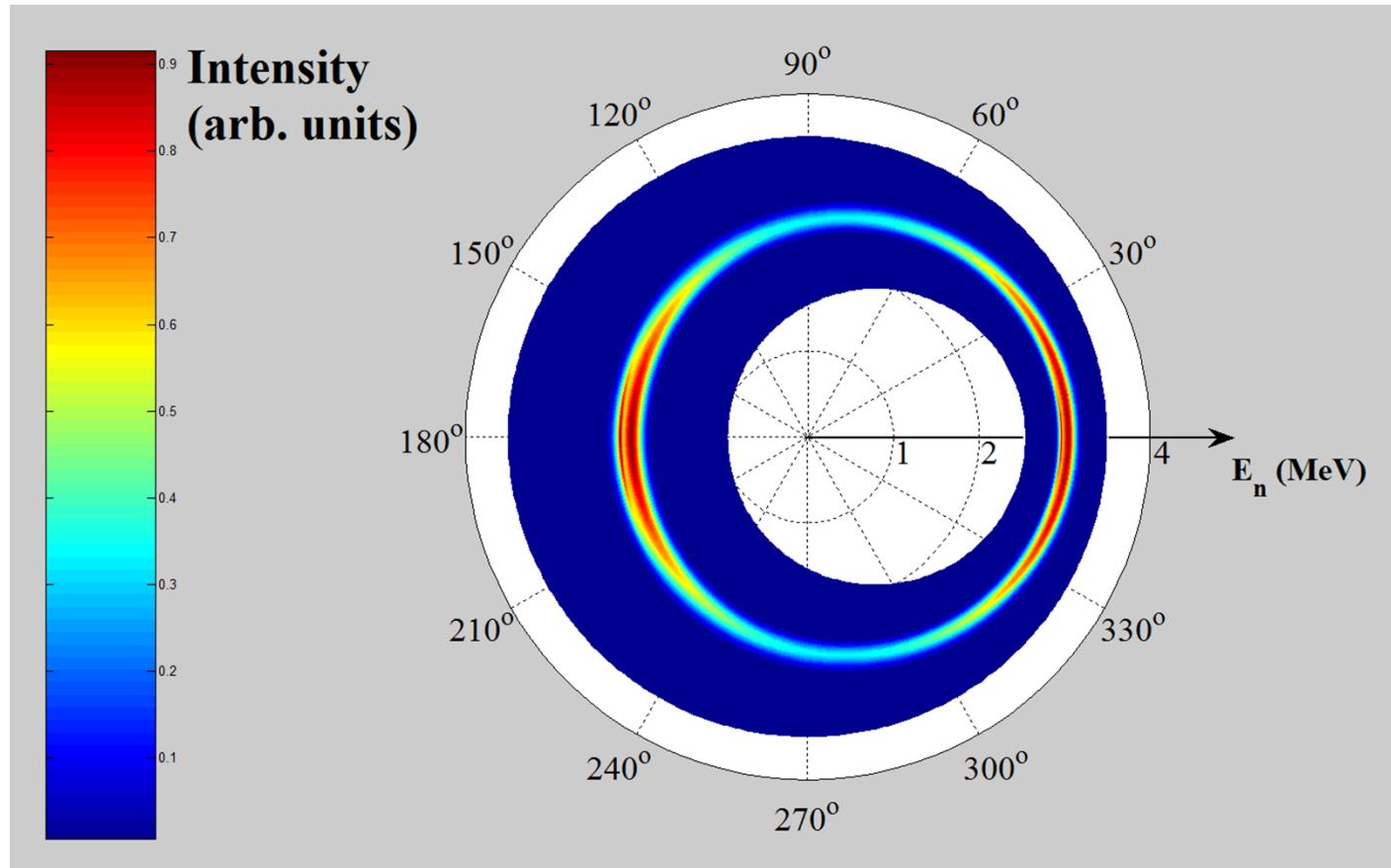
Thermal plasma



Imploding spherical shell

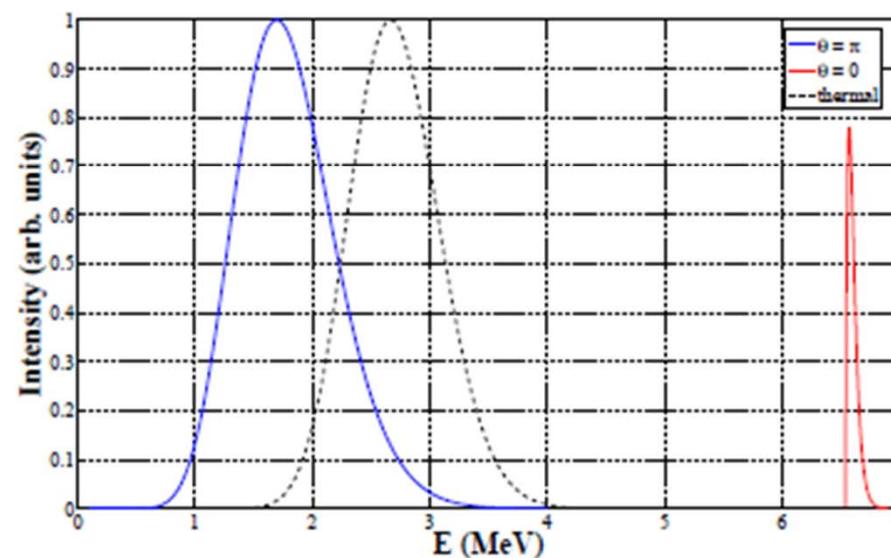
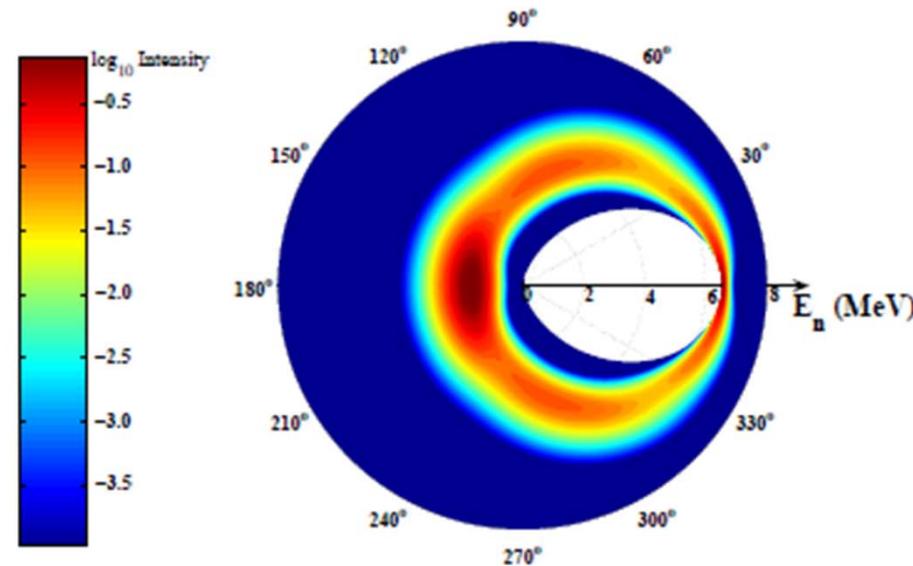
Brian Appelbe: b.appelbe07@ic.ac.uk

# Neutron Spectra



Beam-Target neutron spectrum for beam energy of 200 keV and target temperature of 5 keV.

# Neutron Spectra



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