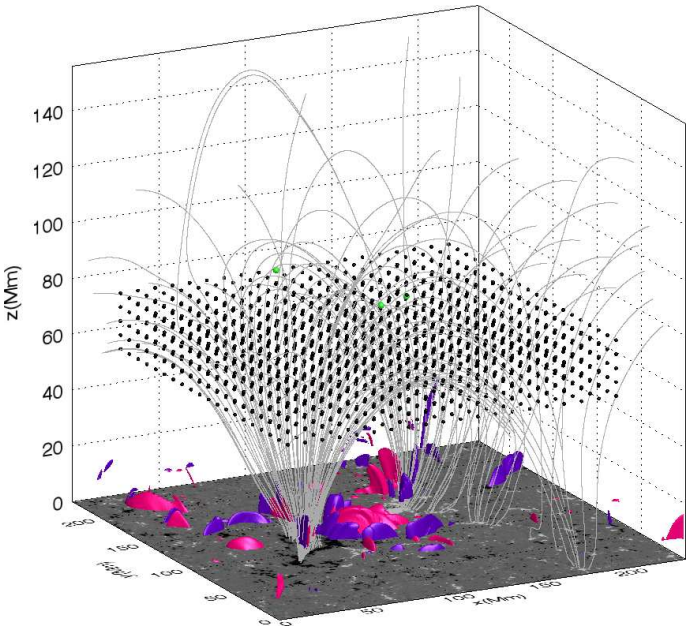
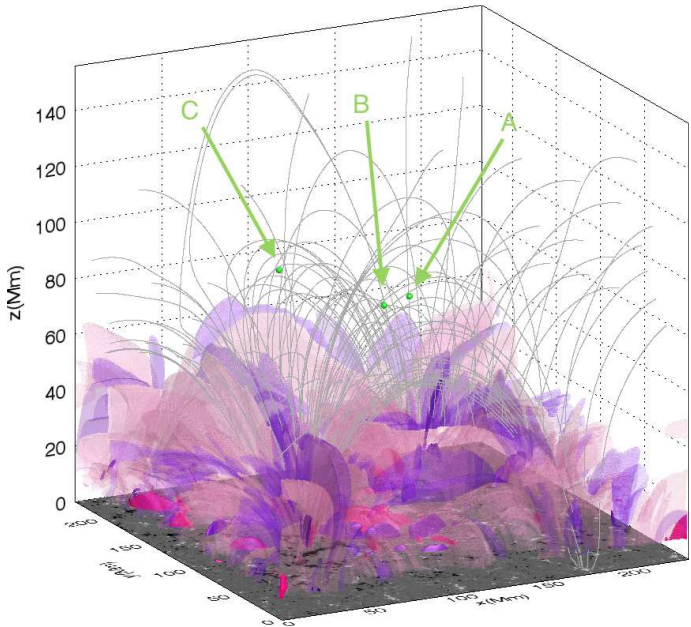


(a) Initial particle grid and high $E_{\parallel}$ regions



(b) Moderate and high $E_{\parallel}$ regions