

ss2012

PICシミュレーションによる  
1次元、2次元無衝突衝撃波

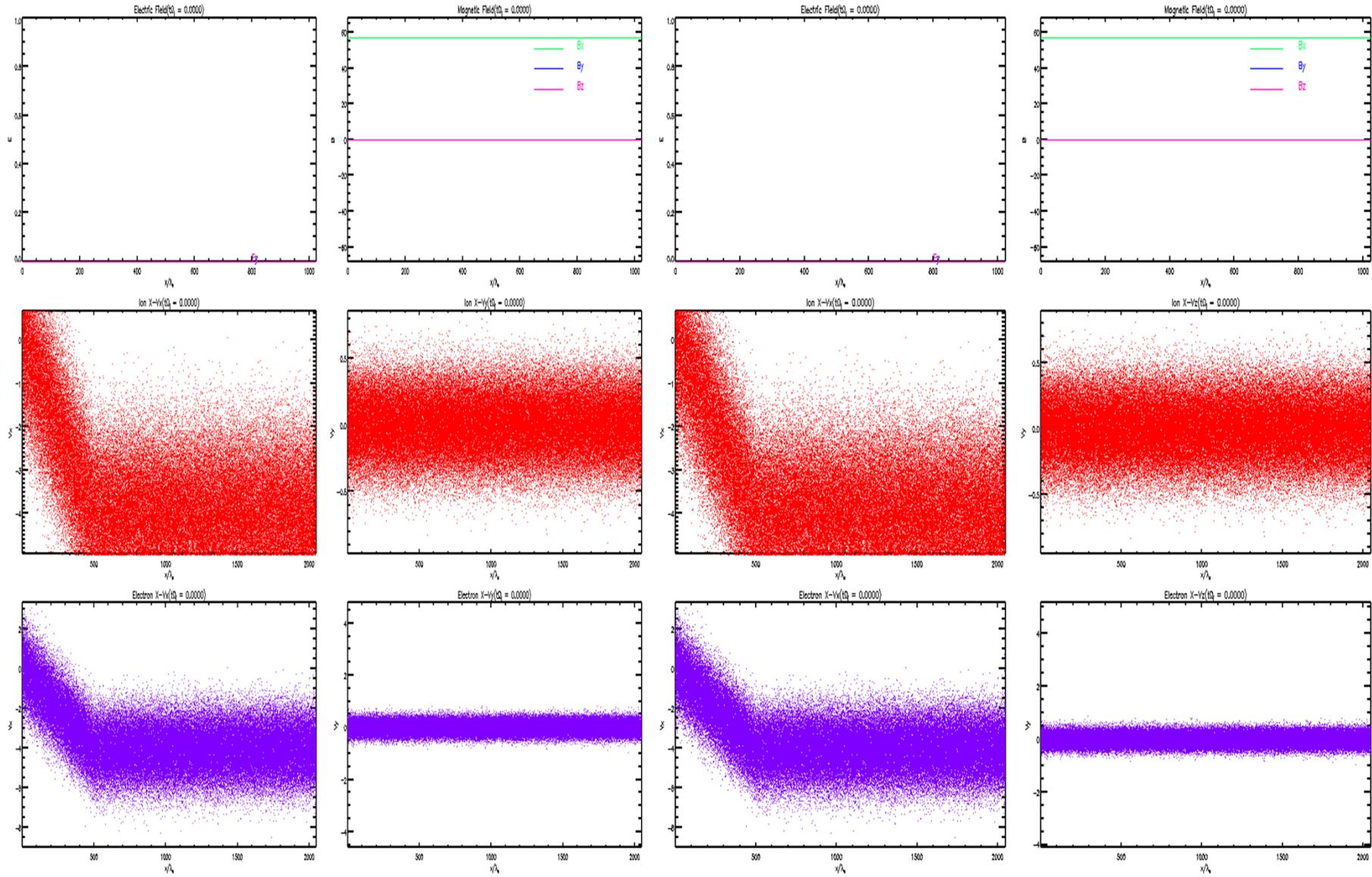
清水健矢  
内野宏俊

# 1次元無衝突衝撃波

## パラメータ

$m_i/m_e$	25
$\omega_{pe}/\omega_{ce}$	10
$\Theta B_n$	0,30,60,90
MA	10
$\beta_i$	0.5
$\beta_e$	0.5

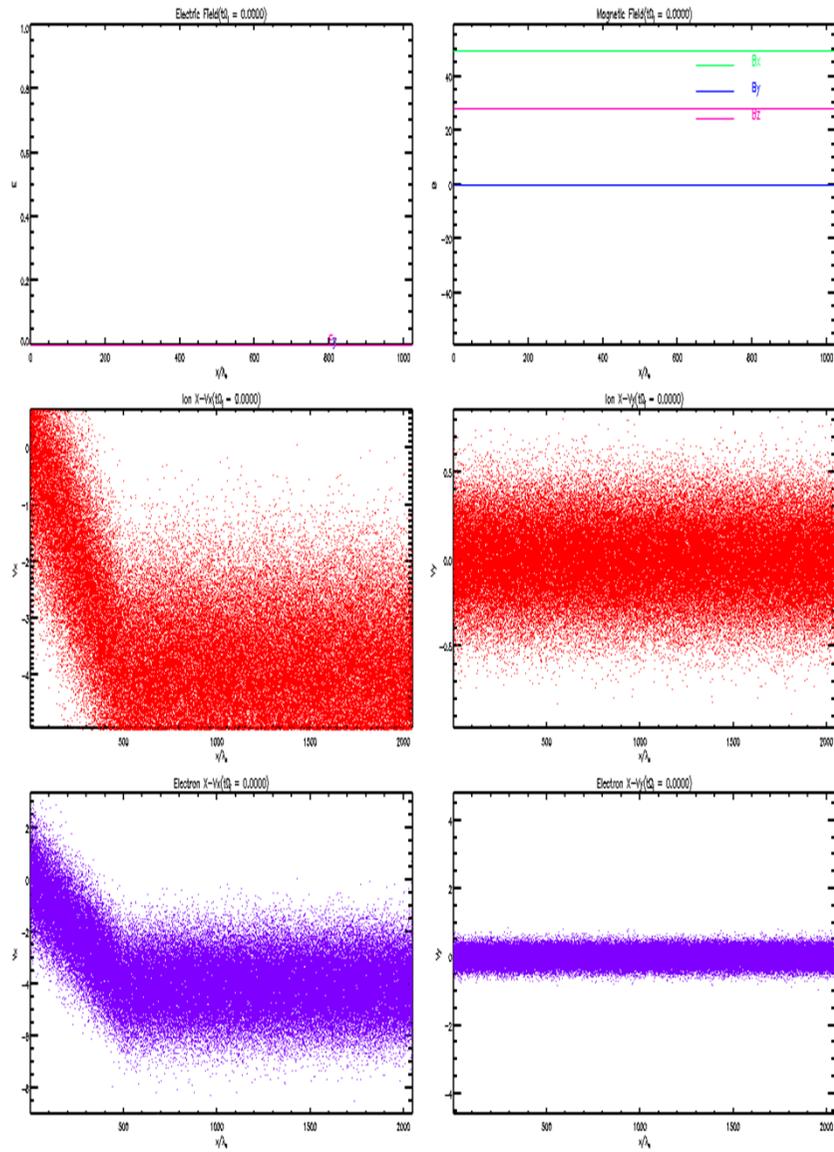
$$\Theta = 0$$



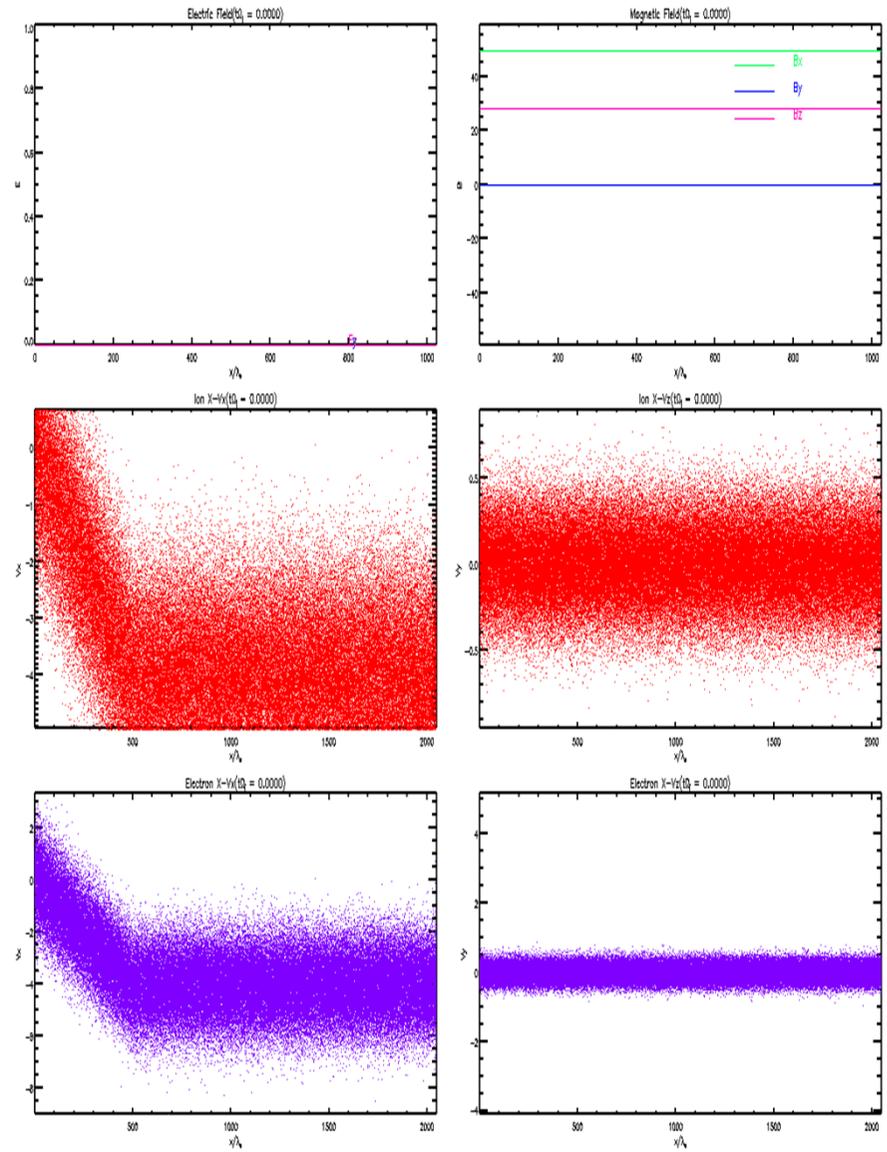
y

z

$\Theta=30$

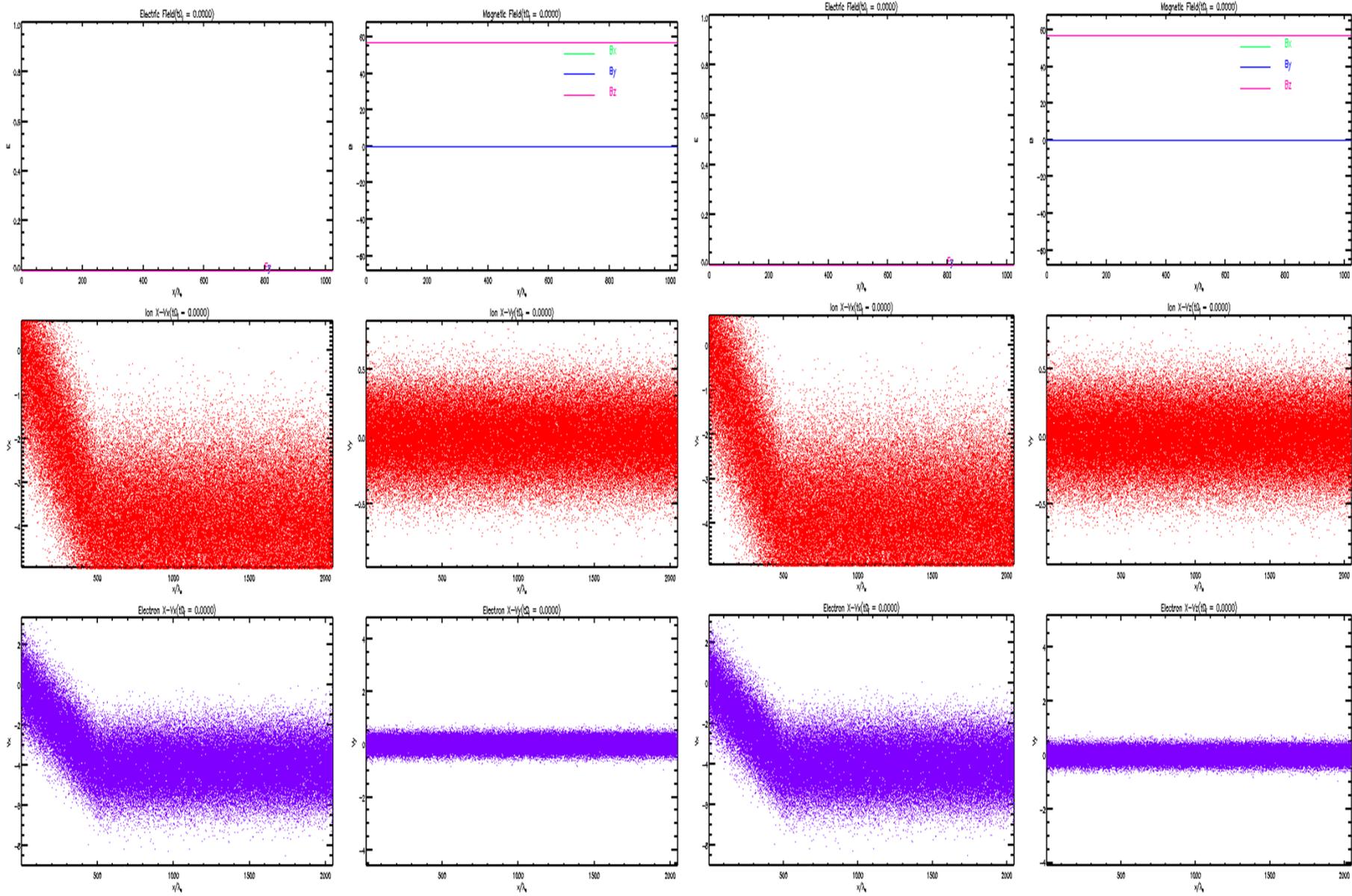


y



z

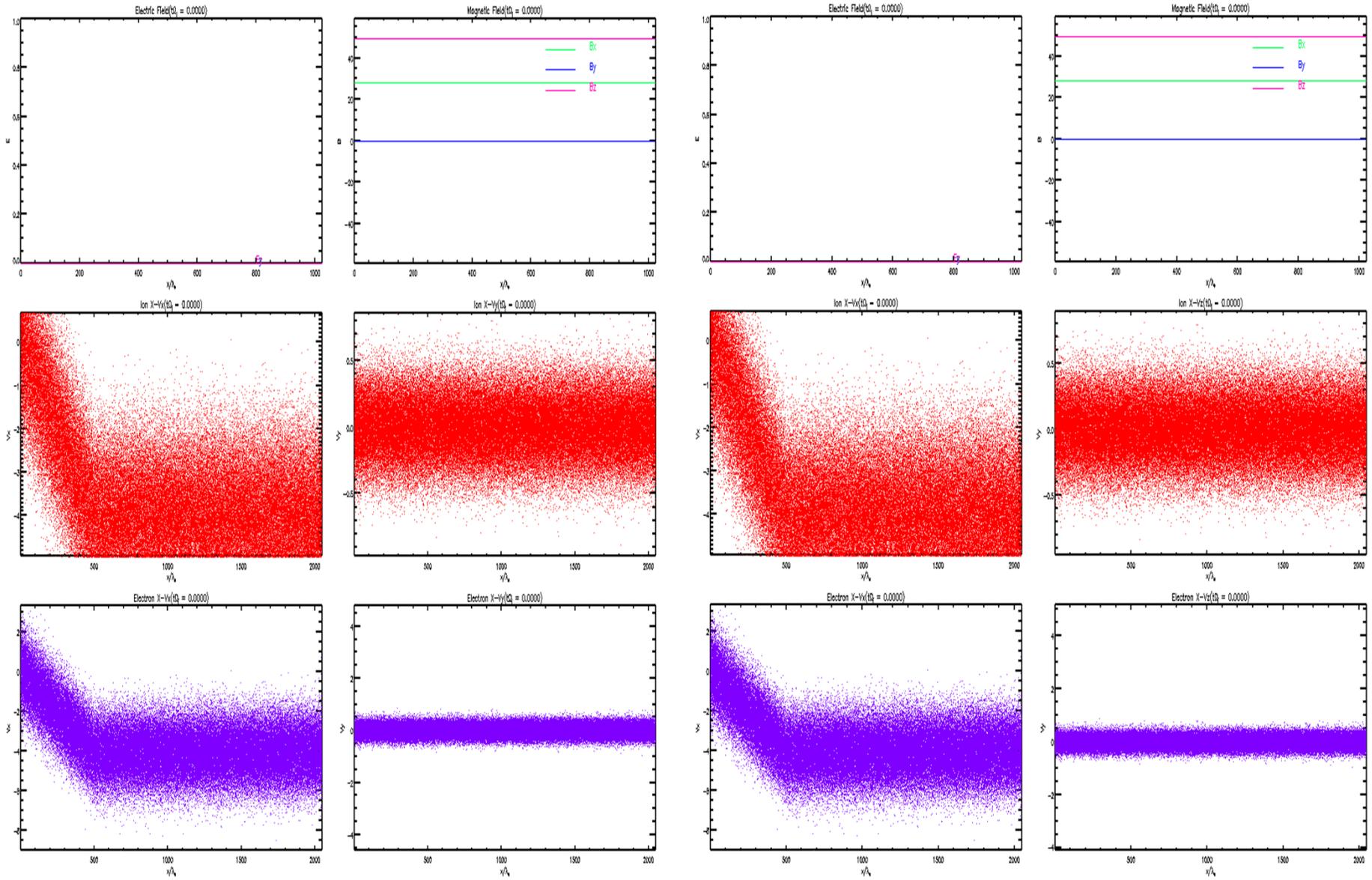
$\Theta=60$



y

z

$\Theta=90$



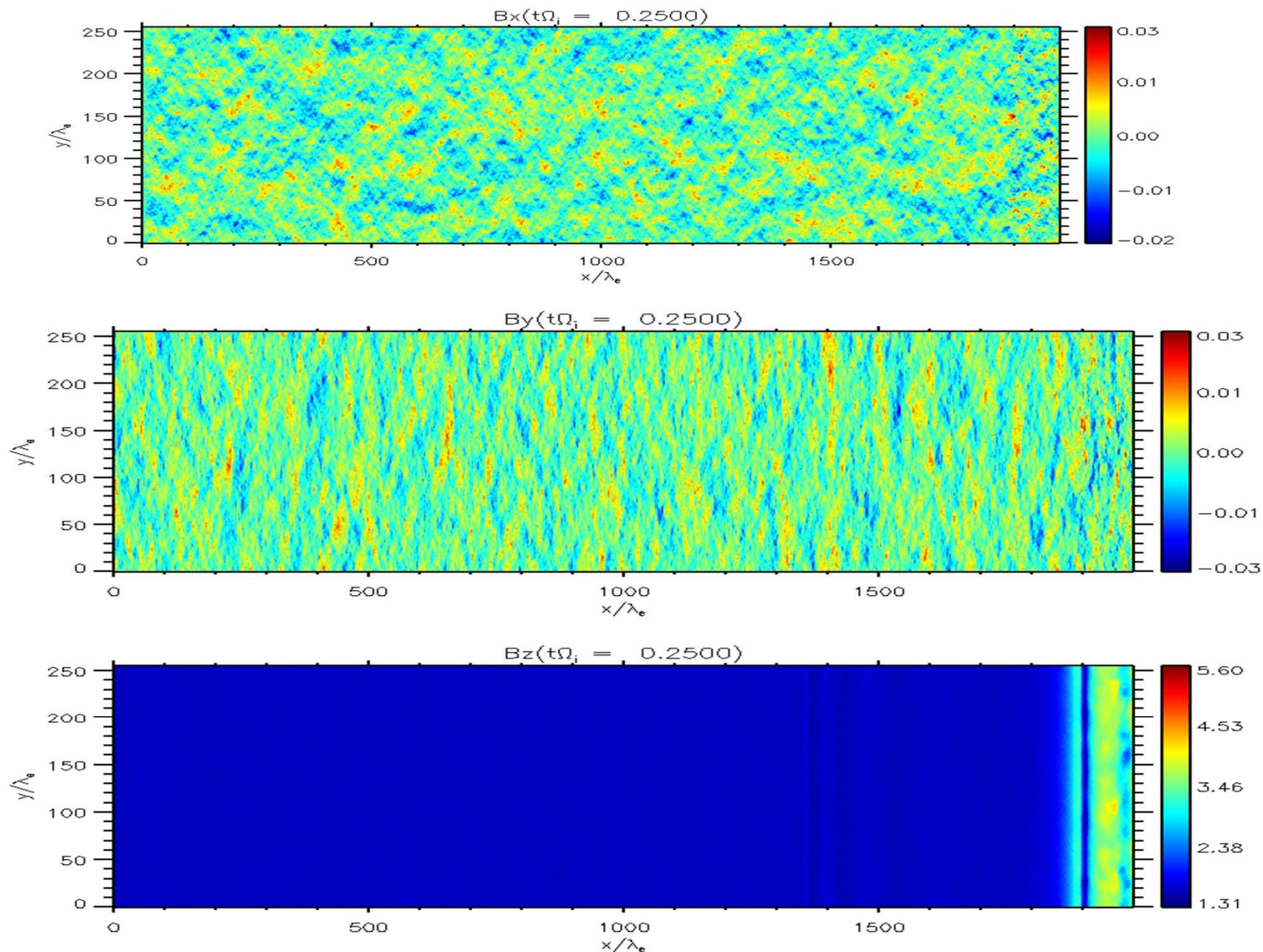
y

z

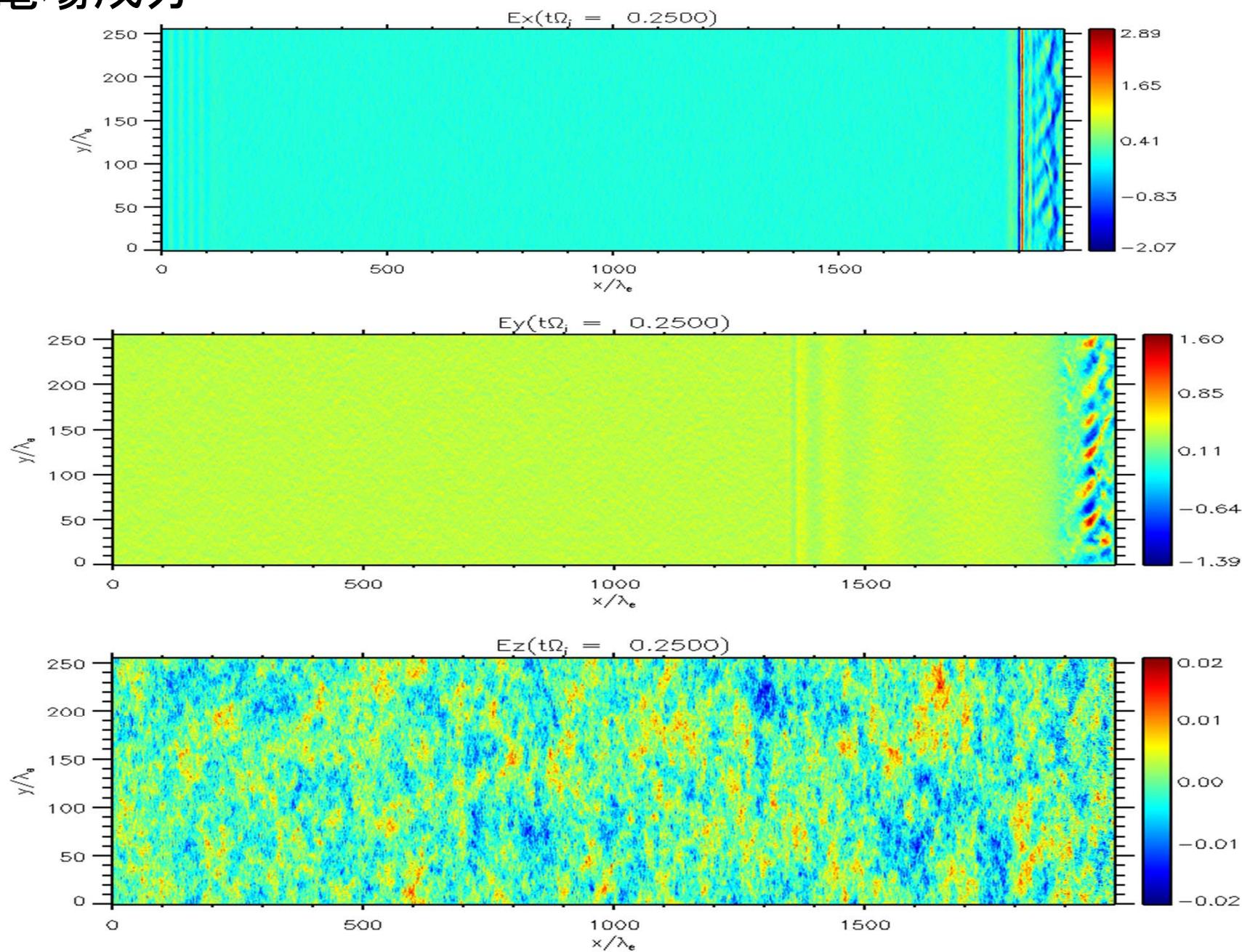
# 2次元無衝突衝撃波 y方向磁場、z方向磁場の時 パラメータ

$m_i/m_e$	25
$\omega_{pe}/\omega_{ce}$	10
MA	10
$\beta_i$	0.5
$\beta_e$	0.5

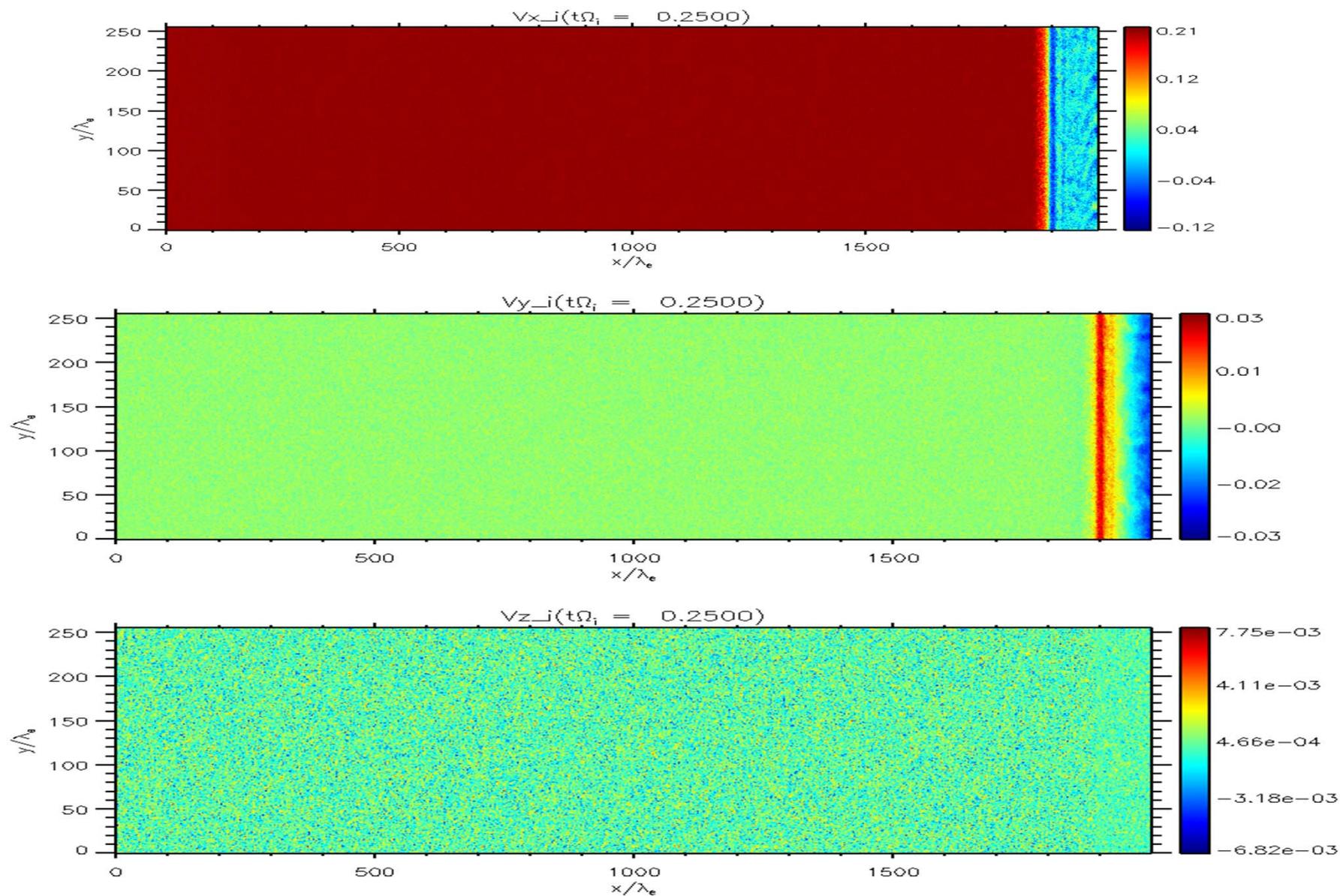
# $z$ 方向磁場(面外磁場)があるときのの磁場成分



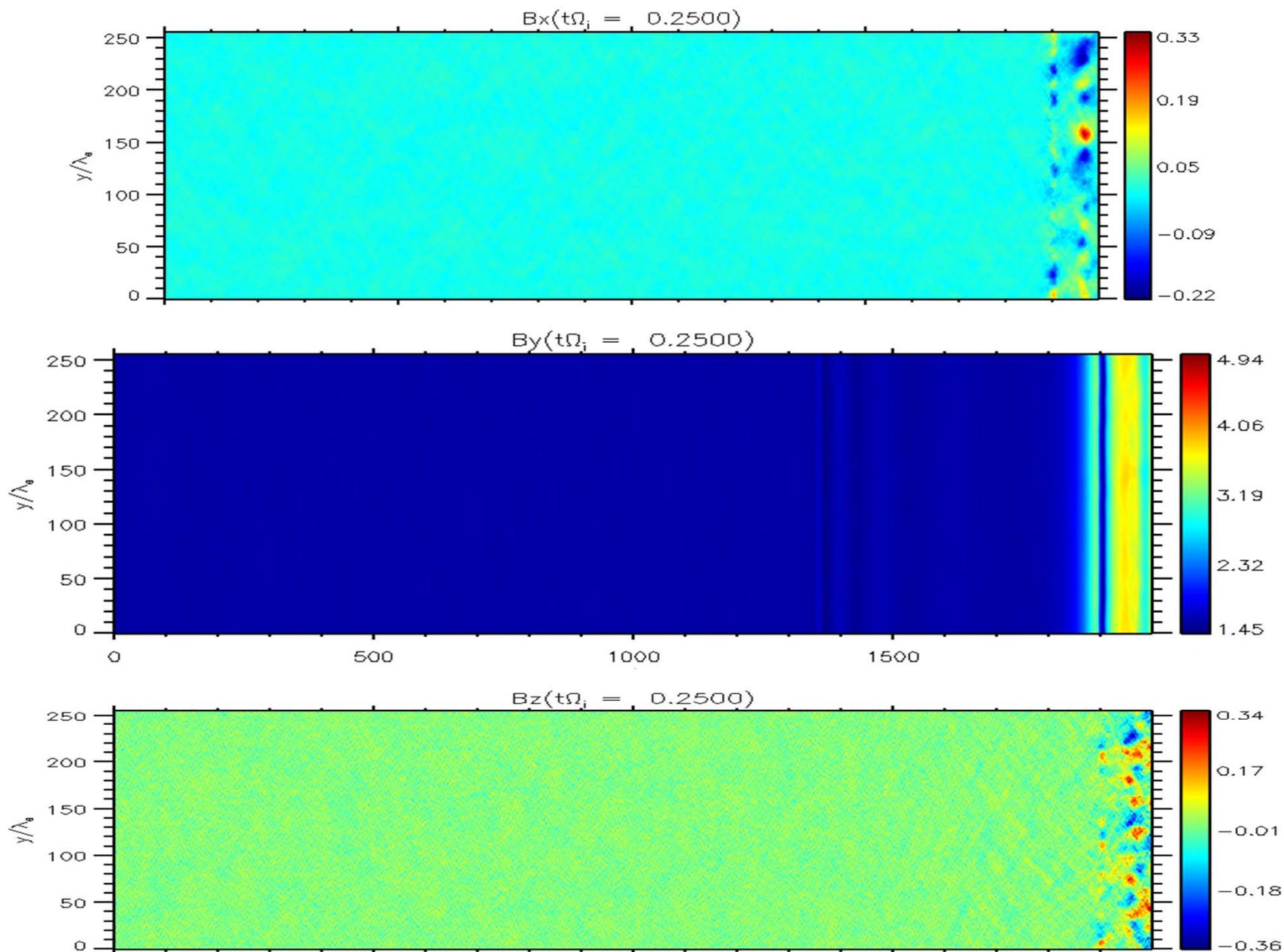
# 電場成分



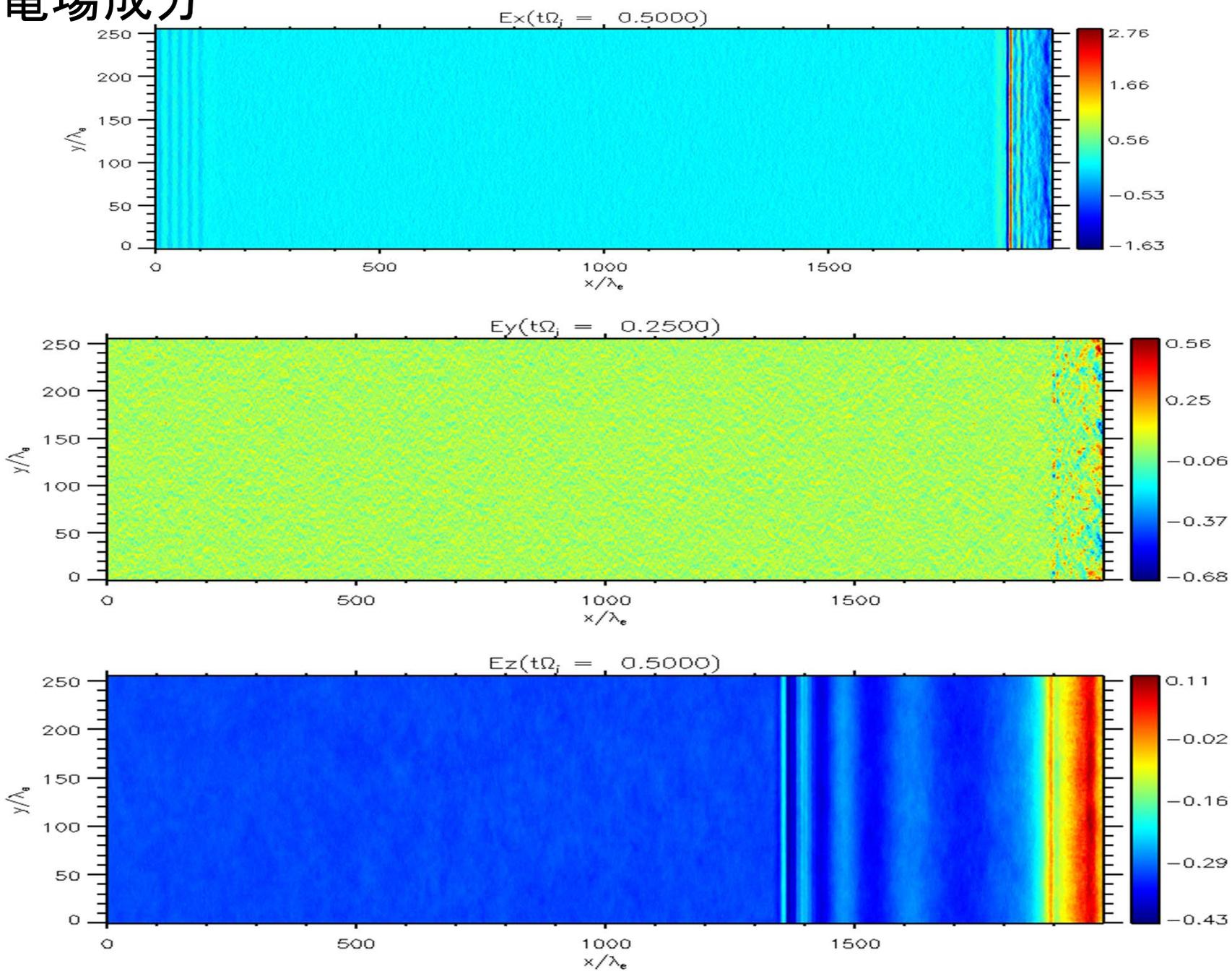
# イオン速度成分



# Y方向磁場(面内磁場)があるときの磁場成分



# 電場成分



# イオン速度成分

