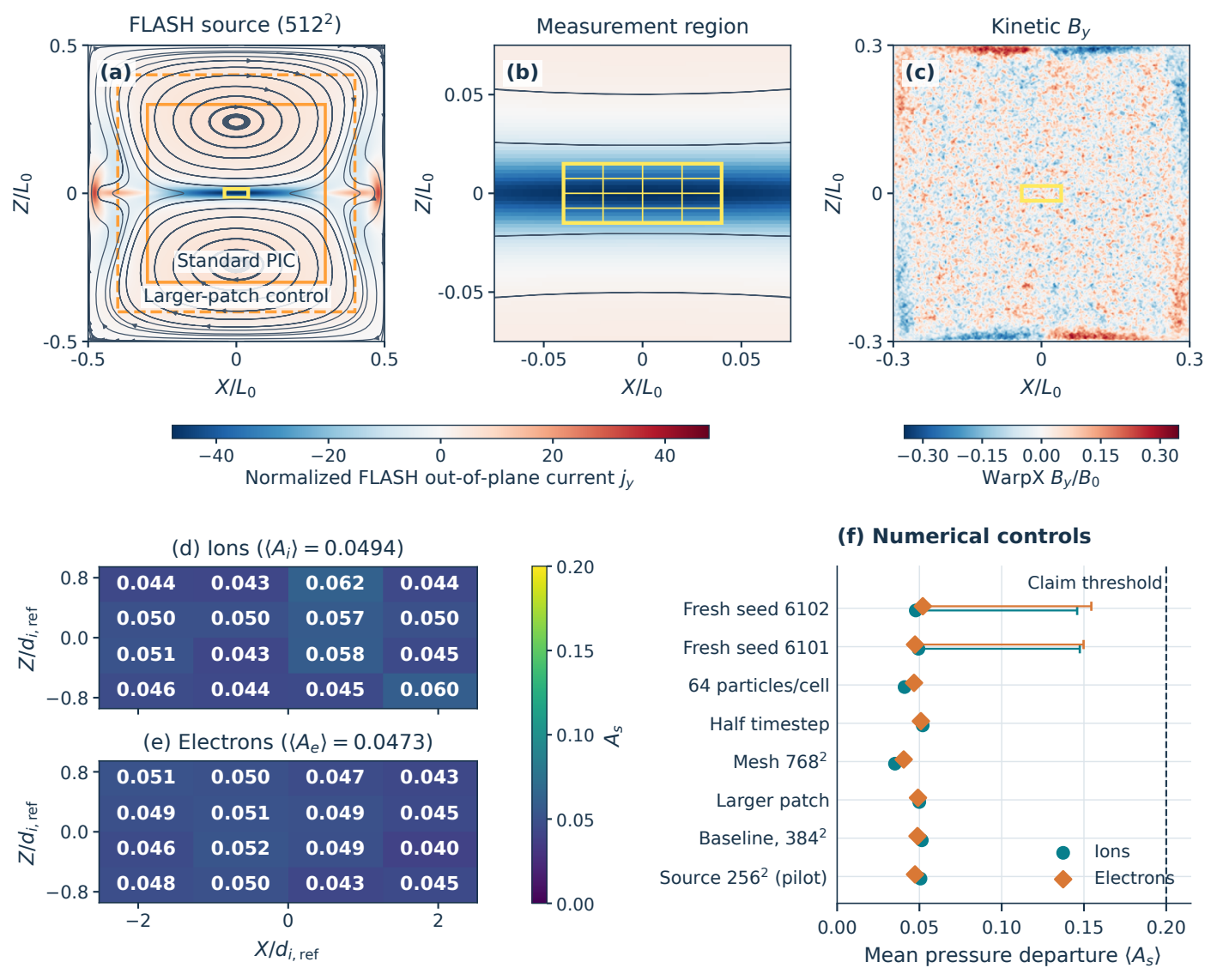
FLASH source (512^2)
(a)
Standard PIC
Larger-patch control
Z/L_0
X/L_0
Measurement region
(b)
Kinetic B_y
(c)
Normalized FLASH out-of-plane current j_y
WarpX B_y/B_0
(d) Ions ($\langle A_i \rangle = 0.0494$)
0.044 0.043 0.062 0.044
0.050 0.050 0.057 0.050
0.051 0.043 0.058 0.045
0.046 0.044 0.045 0.060
$Z/d_{i,\mathrm{ref}}$
(e) Electrons ($\langle A_e \rangle = 0.0473$)
0.051 0.050 0.047 0.043
0.049 0.051 0.049 0.045
0.046 0.052 0.049 0.040
0.048 0.050 0.043 0.045
$X/d_{i,\mathrm{ref}}$
A_s
(f) Numerical controls
Claim threshold
Fresh seed 6102
Fresh seed 6101
64 particles/cell
Half timestep
Mesh 768^2
Larger patch
Baseline, 384^2
Source 256^2 (pilot)
Ions
Electrons
Mean pressure departure $\langle A_s \rangle$