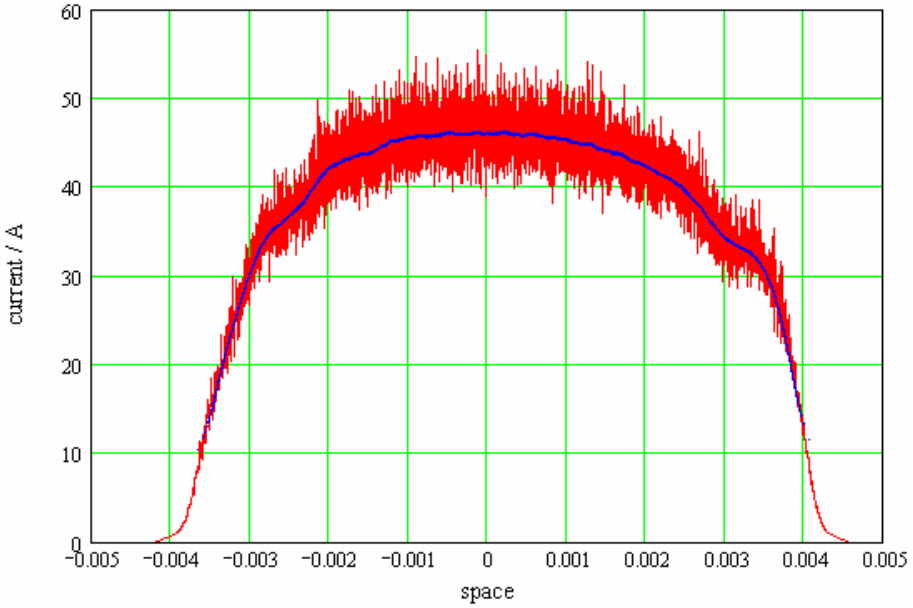
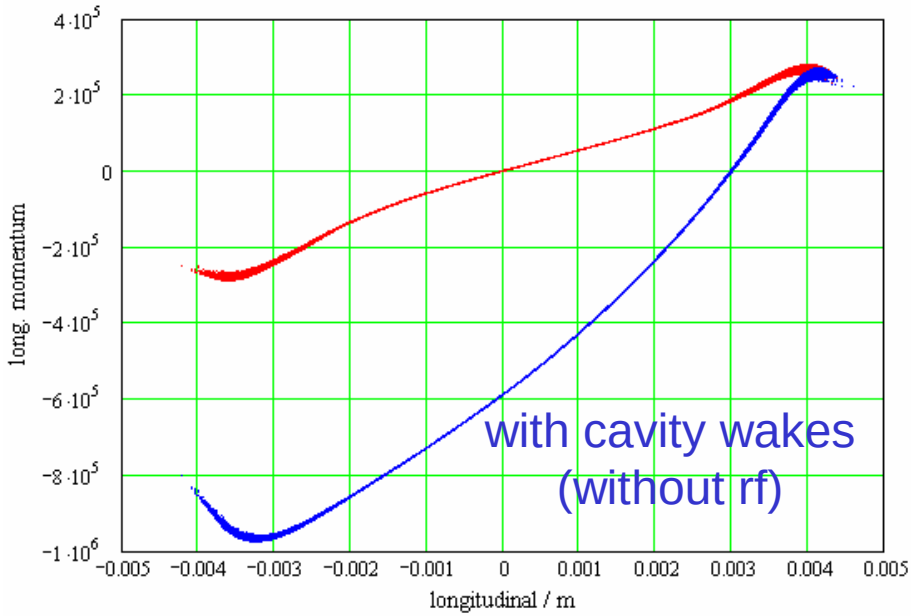
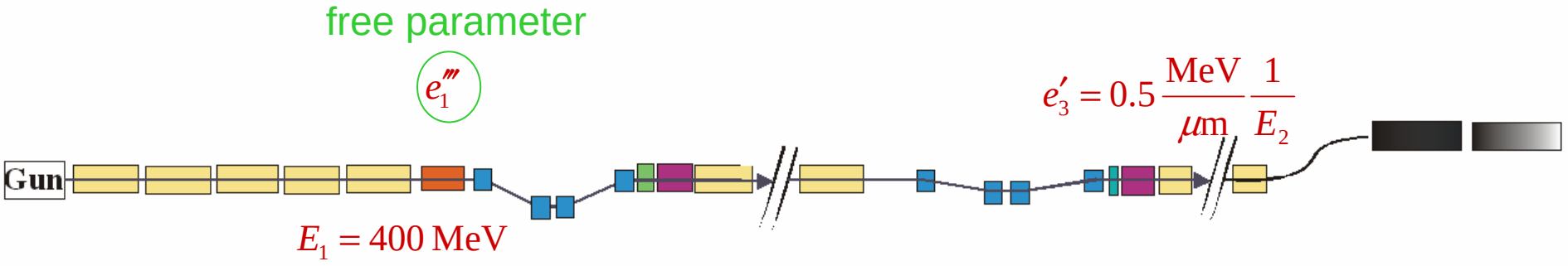


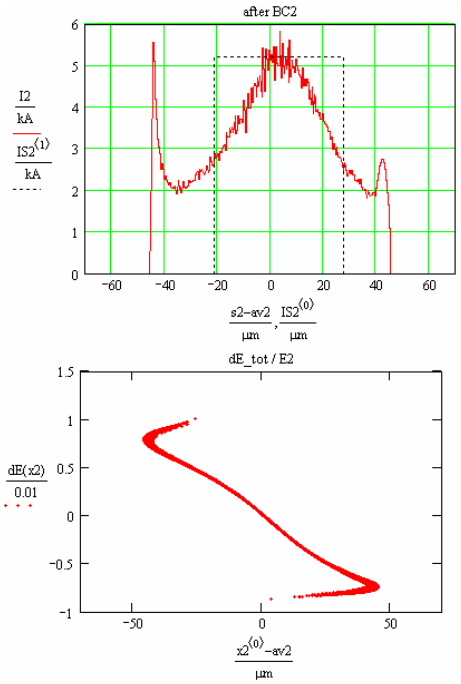
long. Density + wake fields:
4 TESLA modules
3rd harmonic cavities: 8m
active length



setups 7
(low E1)



C_1	φ_{1b} / deg	→	$r_{56,1}$ / mm	$r_{56,2}$ / mm
14	20		89.1	29.3



$$\frac{q_{fwhm}}{q0} = 0.666$$

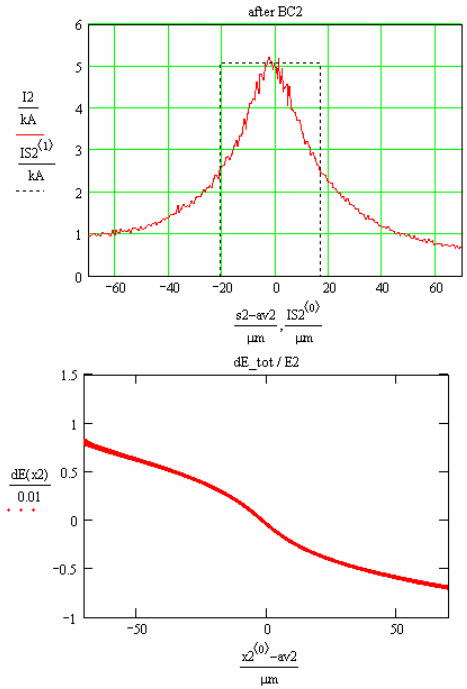
$$\frac{V1a}{MV} = 494.39 \qquad \frac{\Delta V1}{MV} = -0.309$$

$$\frac{\phi 1a}{deg} = 21.1 \qquad \frac{\Delta \phi 1}{deg} = 0.018$$

$$\frac{V3}{MV} = 65.577 \qquad \frac{\Delta V3}{MV} = 0.259$$

$$\frac{\phi 3}{deg} = -174.231 \qquad \frac{\Delta \phi 3}{deg} = -0.056$$

$$\left(\frac{1}{\Delta\phi 1} + \frac{3}{\Delta\phi 3}\right)^{-1} \cdot \frac{1}{deg} = 0.257$$



$$\frac{q_{fwhm}}{q0} = 0.476$$

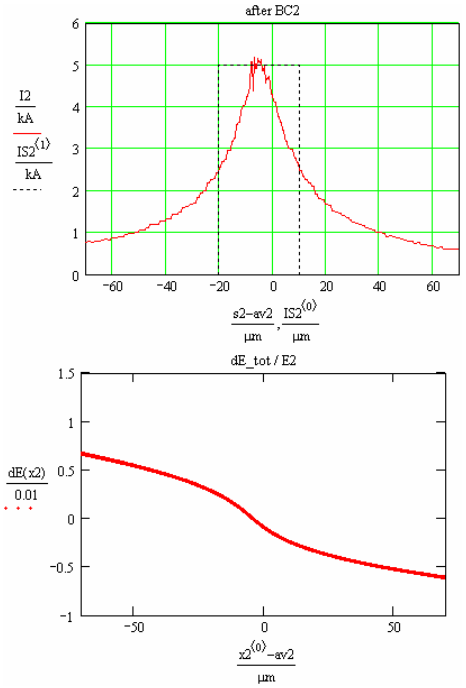
$$\frac{V1a}{MV} = 462.27 \qquad \frac{\Delta V1}{MV} = -0.198$$

$$\frac{\phi 1a}{deg} = 3.82 \qquad \frac{\Delta \phi 1}{deg} = 0.023$$

$$\frac{V3}{MV} = 77.844 \qquad \frac{\Delta V3}{MV} = 0.079$$

$$\frac{\phi 3}{deg} = -213.055 \qquad \frac{\Delta \phi 3}{deg} = -0.076$$

$$\left(\frac{1}{\Delta\phi 1} + \frac{3}{\Delta\phi 3}\right)^{-1} \cdot \frac{1}{deg} = 0.257$$



$$\frac{q_{fwhm}}{q0} = 0.379$$

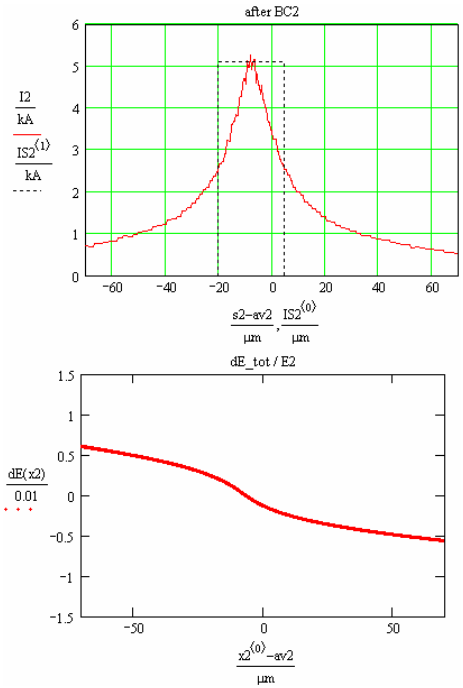
$$\frac{V1a}{MV} = 475.69 \qquad \frac{\Delta V1}{MV} = -0.155$$

$$\frac{\phi 1a}{deg} = -14.16 \qquad \frac{\Delta \phi 1}{deg} = 0.034$$

$$\frac{V3}{MV} = 112.387 \qquad \frac{\Delta V3}{MV} = 0.065$$

$$\frac{\phi 3}{deg} = -234.512 \qquad \frac{\Delta \phi 3}{deg} = -0.118$$

$$\left(\frac{1}{\Delta\phi 1} + \frac{3}{\Delta\phi 3}\right)^{-1} \cdot \frac{1}{deg} = 0.257$$



$$\frac{q_{fwhm}}{q0} = 0.316$$

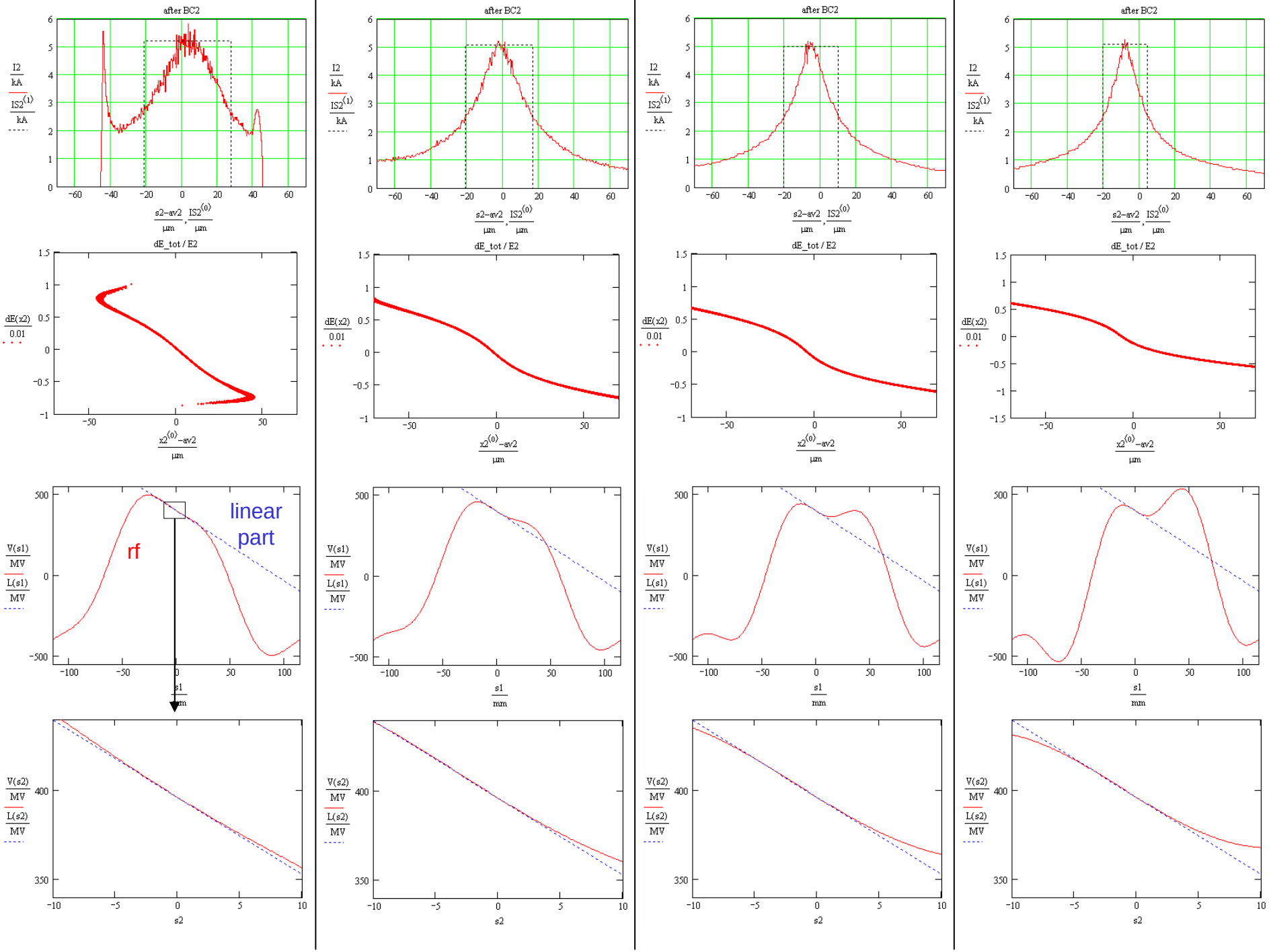
$$\frac{V1a}{MV} = 531.2 \qquad \frac{\Delta V1}{MV} = -0.14$$

$$\frac{\phi 1a}{deg} = -29.74 \qquad \frac{\Delta \phi 1}{deg} = 0.065$$

$$\frac{V3}{MV} = 154.965 \qquad \frac{\Delta V3}{MV} = 0.063$$

$$\frac{\phi 3}{deg} = -245.1 \qquad \frac{\Delta \phi 3}{deg} = -0.259$$

$$\left(\frac{1}{\Delta\phi 1} + \frac{3}{\Delta\phi 3}\right)^{-1} \cdot \frac{1}{deg} = 0.257$$


after BC2
I2
kA
IS2(1)
kA
s2−av2
μm
IS2(0)
μm
dE_tot / E2
dE(x2)
0.01
x2(0)−av2
μm
linear
part
rf
V(s1)
MV
L(s1)
MV
s1
mm
V(s2)
MV
L(s2)
MV
s2