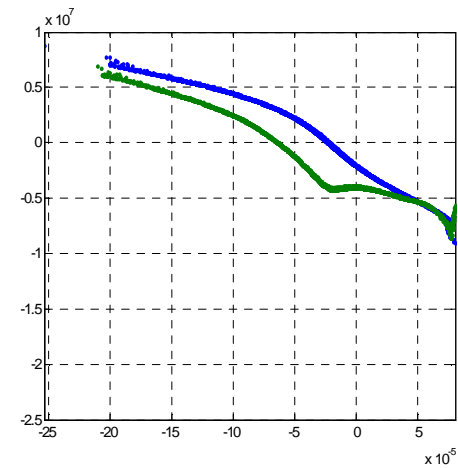
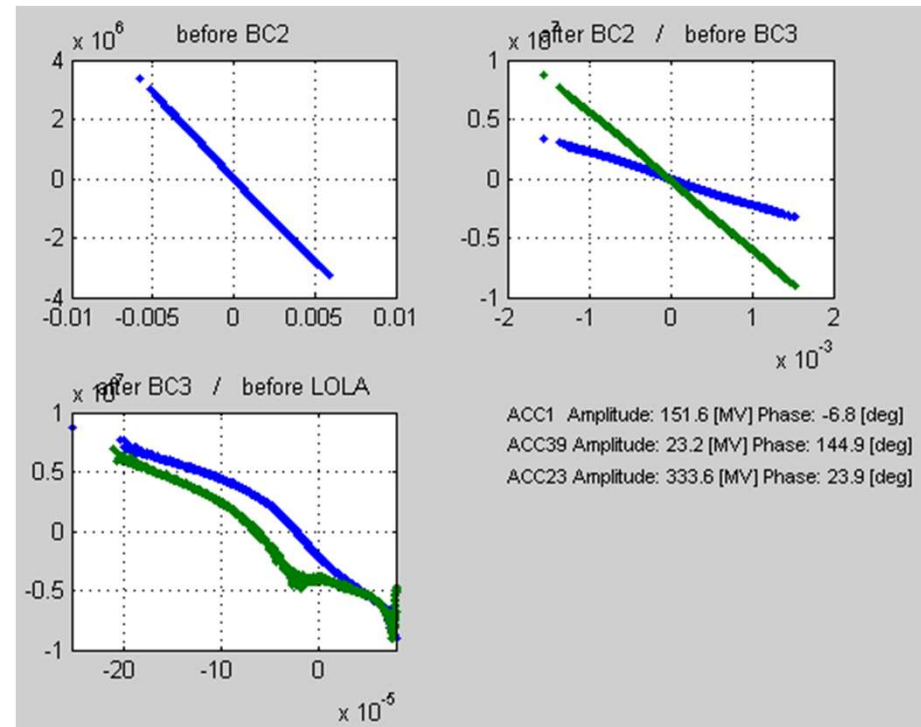
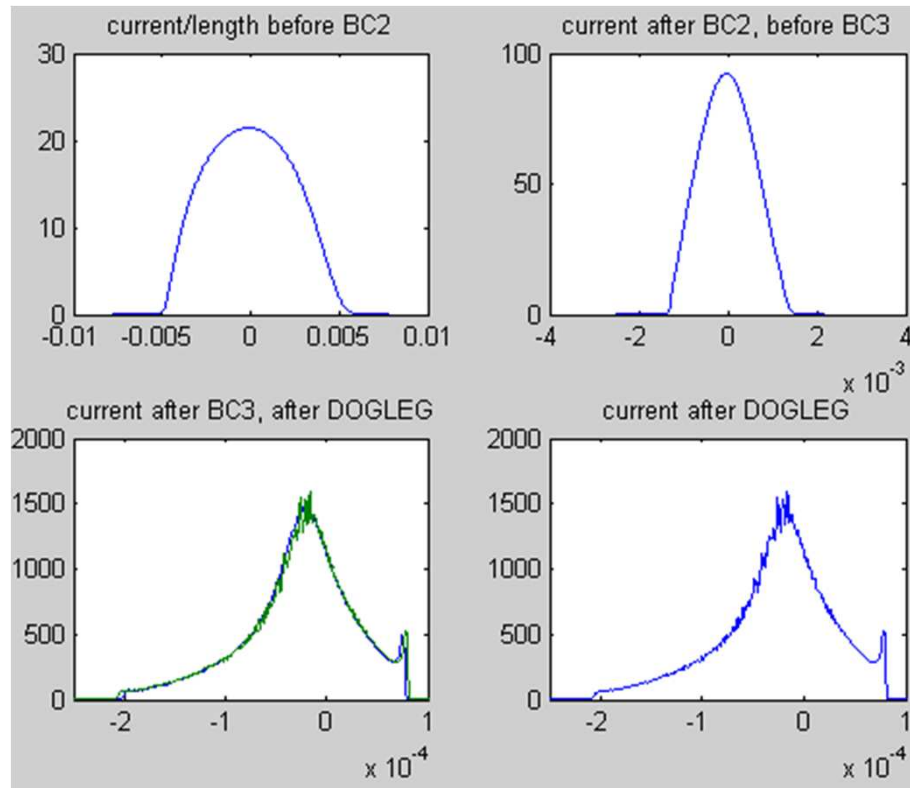


10E6 particles, 500pC
 moderate filtering

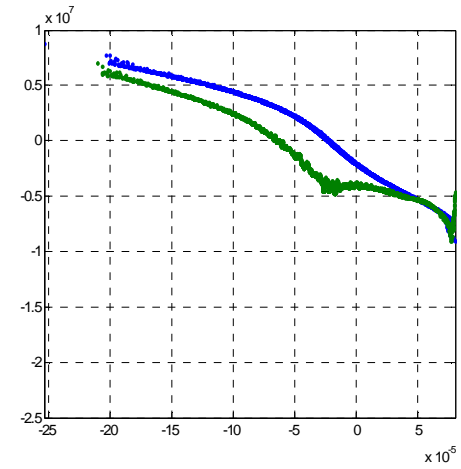


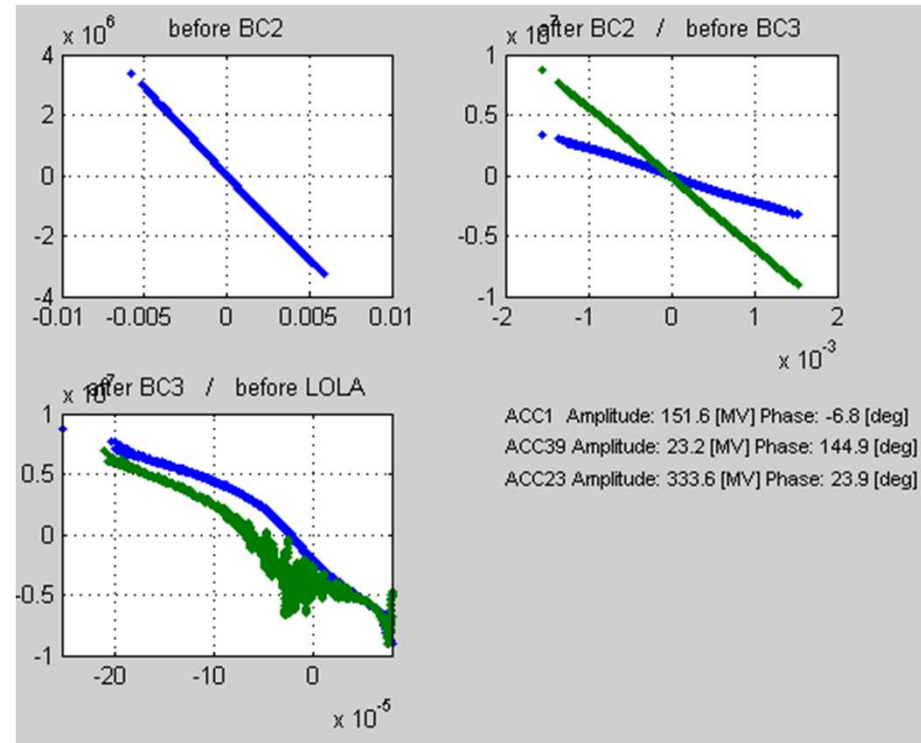
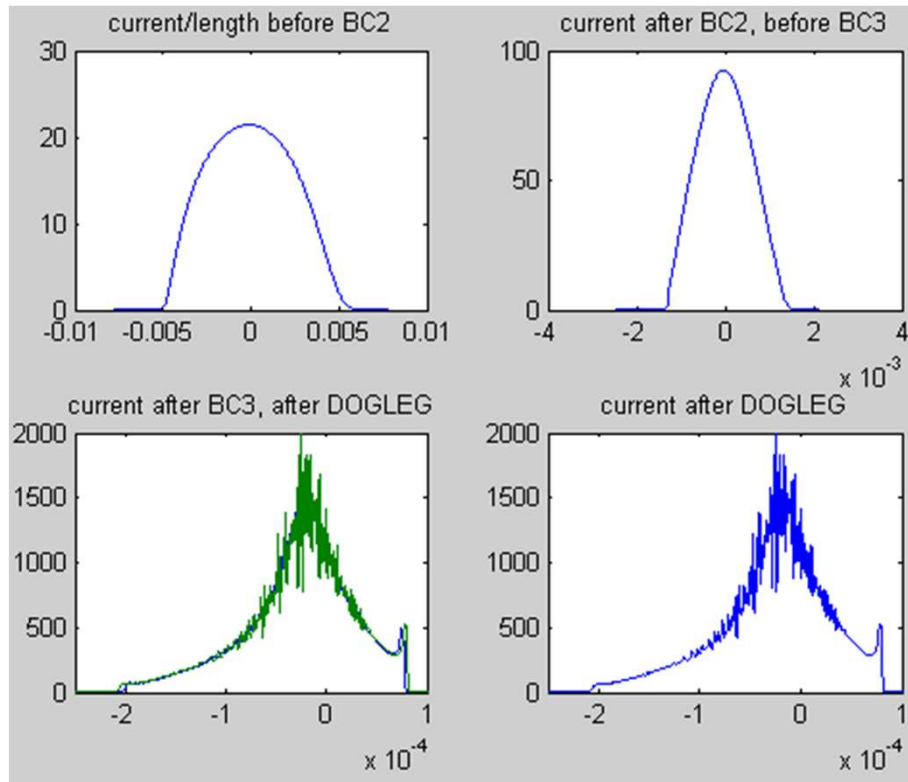


10E6 particles, 500pC

```

$--- numerical parameters for wake -----
action1(1)='update'; action1(2)=[1 1]; action1(3)=[0.5,1000,15, 2,0.5,30.9E-6];
action2(1)='update'; action2(2)=[1 1]; action2(3)=[0.5,1000,15, 2,0.5,15.0E-6];
action3(1)='update'; action3(2)=[1 1]; action3(3)=[0.5,1000,15, 2,0.5,0.5E-6];
action4(1)='update'; action4(2)=[1 1]; action4(3)=[0.5,1000,15, 2,0.5, 0.5E-6];
  
```

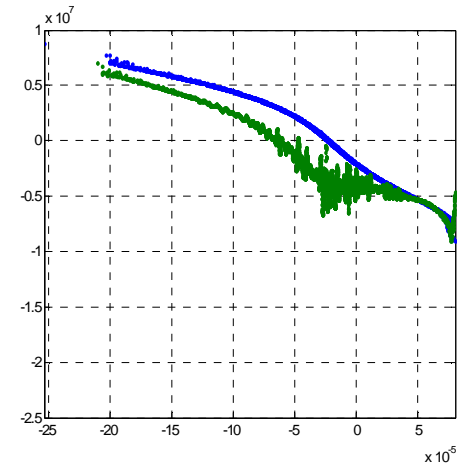


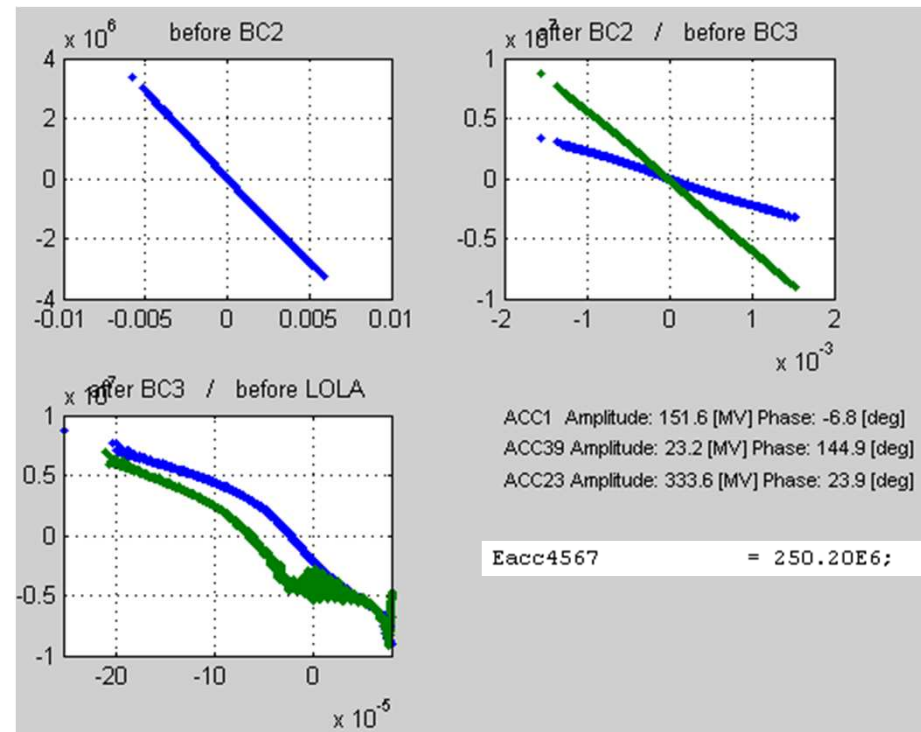
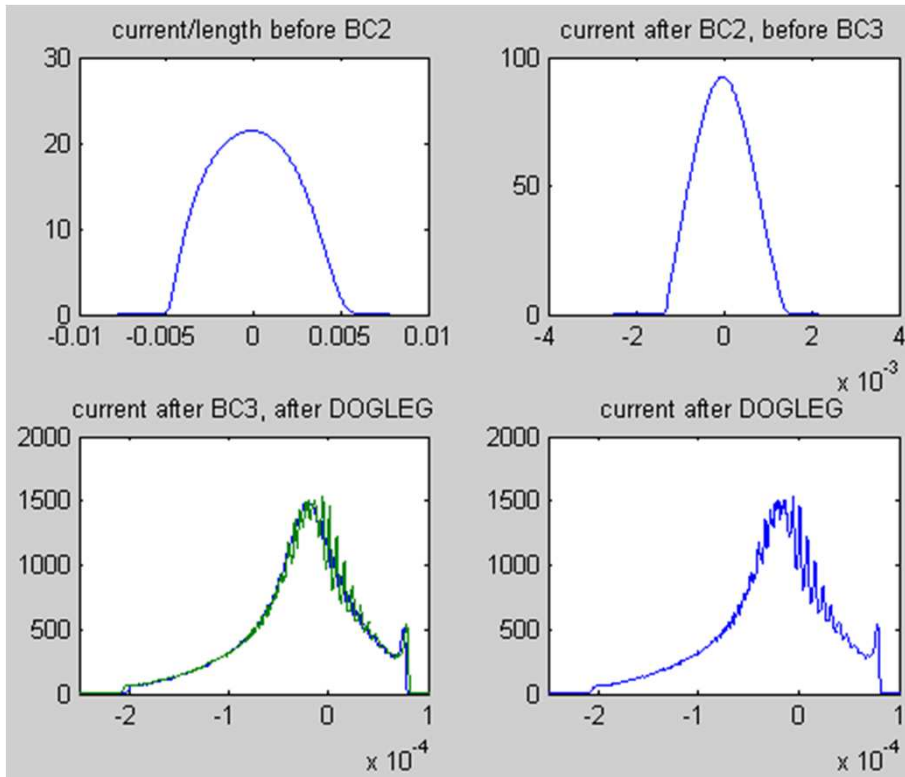


10E6 particles, 500pC

```

%--- numerical parameters for wake -----
action1(1)='update'; action1(2)=[1 1]; action1(3)=[0.5,1000,15, 2,0.5,30.0E-6];
action2(1)='update'; action2(2)=[1 1]; action2(3)=[0.5,1000,15, 2,0.5, 7.5E-6];
action3(1)='update'; action3(2)=[1 1]; action3(3)=[0.5,1000,15, 2,0.5, 0.5E-6];
action4(1)='update'; action4(2)=[1 1]; action4(3)=[0.5,1000,15, 2,0.5, 0.5E-6];
  
```



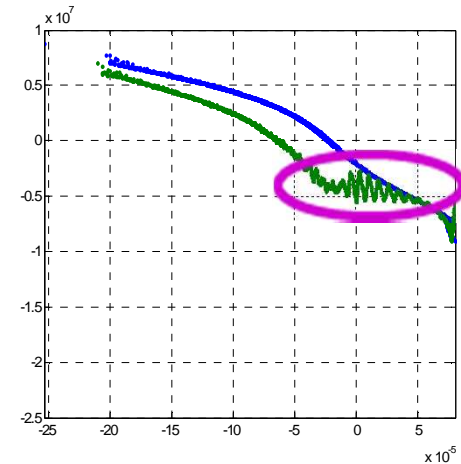


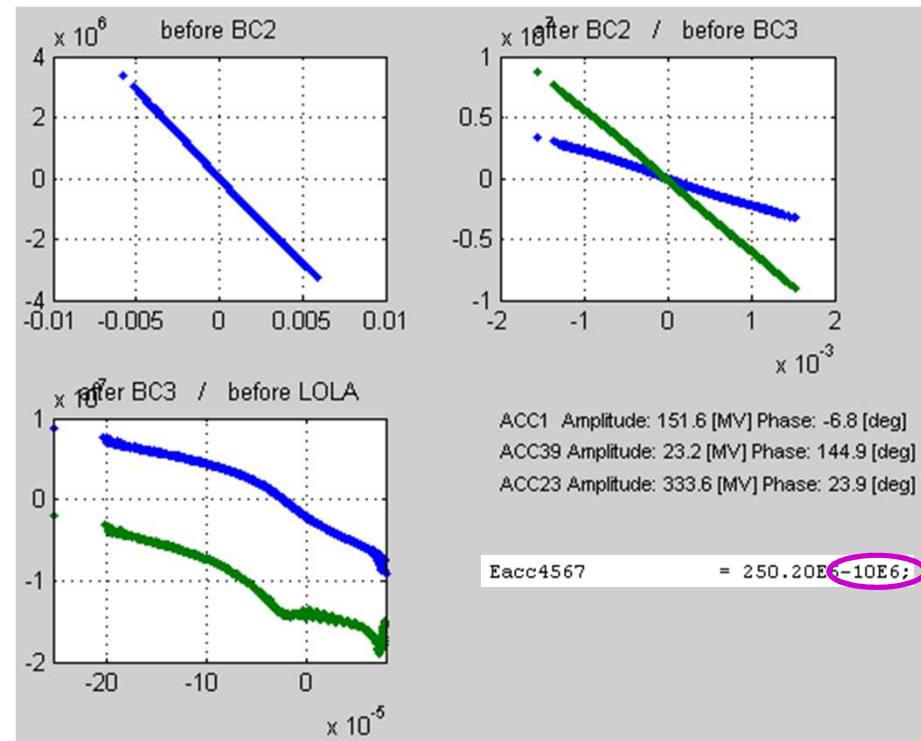
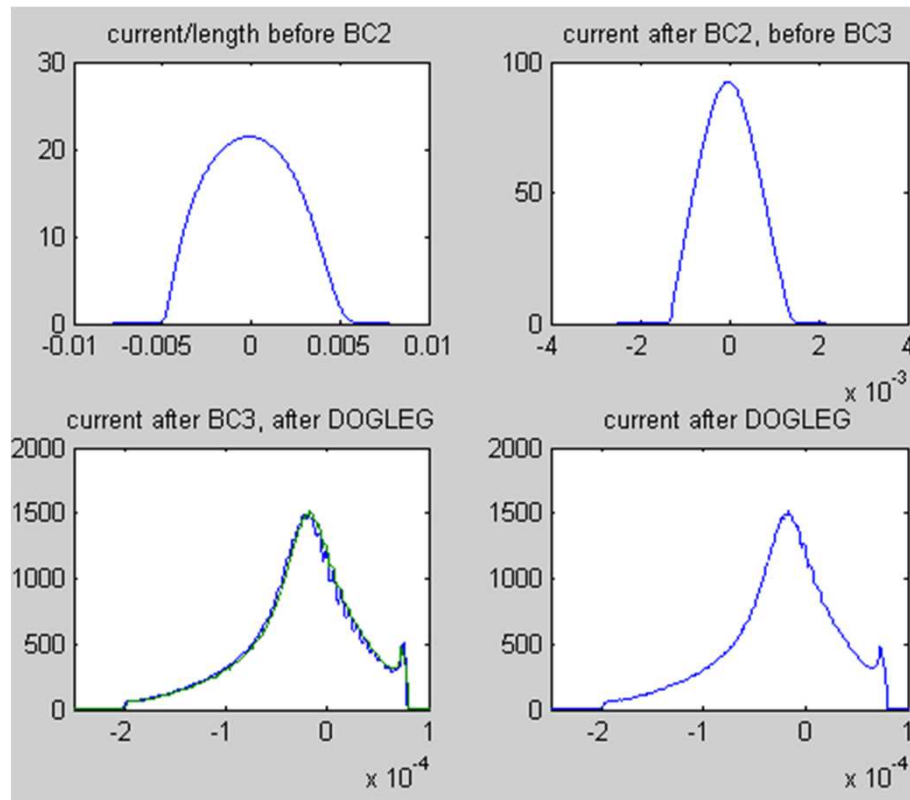
2% modulation at cathode
 wavelength = 0.3 mm
 10E6 particles, 500pC

```

$--- numerical parameters for wake -----
action1(1)='update'; action1(2)=[1 1]; action1(3)=[0.5,1000,15, 2,0.5,30.9E-6];
action2(1)='update'; action2(2)=[1 1]; action2(3)=[0.5,1000,15, 2,0.5,15.0E-6];
action3(1)='update'; action3(2)=[1 1]; action3(3)=[0.5,1000,15, 2,0.5,0.5E-6];
action4(1)='update'; action4(2)=[1 1]; action4(3)=[0.5,1000,15, 2,0.5, 0.5E-6];
  
```

uB is amplified in Dogleg !!!
 different Dogleg-r56 for different energy: next page





2% modulation at cathode
wavelength = 0.3 mm
10E6 particles, 500pC

```

$--- numerical parameters for wake -----
action1(1)='update'; action1(2)=[1 1]; action1(3)=[0.5,1000,15, 2,0.5,30.9E-6];
action2(1)='update'; action2(2)=[1 1]; action2(3)=[0.5,1000,15, 2,0.5,15.0E-6];
action3(1)='update'; action3(2)=[1 1]; action3(3)=[0.5,1000,15, 2,0.5,0.5E-6];
action4(1)='update'; action4(2)=[1 1]; action4(3)=[0.5,1000,15, 2,0.5, 0.5E-6];

```

