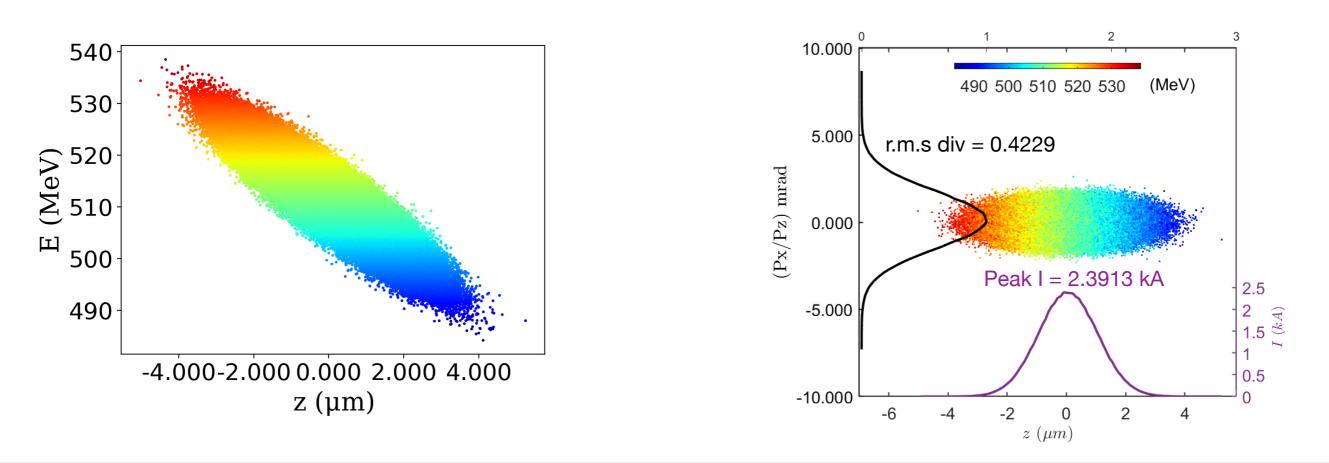
```
# import from Ocelot main modules and functions
from ocelot import *
from ocelot.gui.accelerator import *
from ocelot.adaptors.astra2ocelot import *
print("")
# load and convert ASTRA file to OCELOT beam distribution
p_array_init = astraBeam2particleArray(filename='Astra_format.txt')
print("")
print('No error is loading the beam distribution in ASTRA format.')
print("")
print("p_array_init",p_array_init)
bins_start, hist_start = get_current(p_array_init, num_bins=200)
plt.title("current: end")
plt.plot(bins_start*1e6, hist_start)
plt.xlabel("s, $\mu m$")
plt.ylabel("I, A")
plt.grid(True)
plt.show()
```

Input beam distribution



Beam distribution from Ocelot

