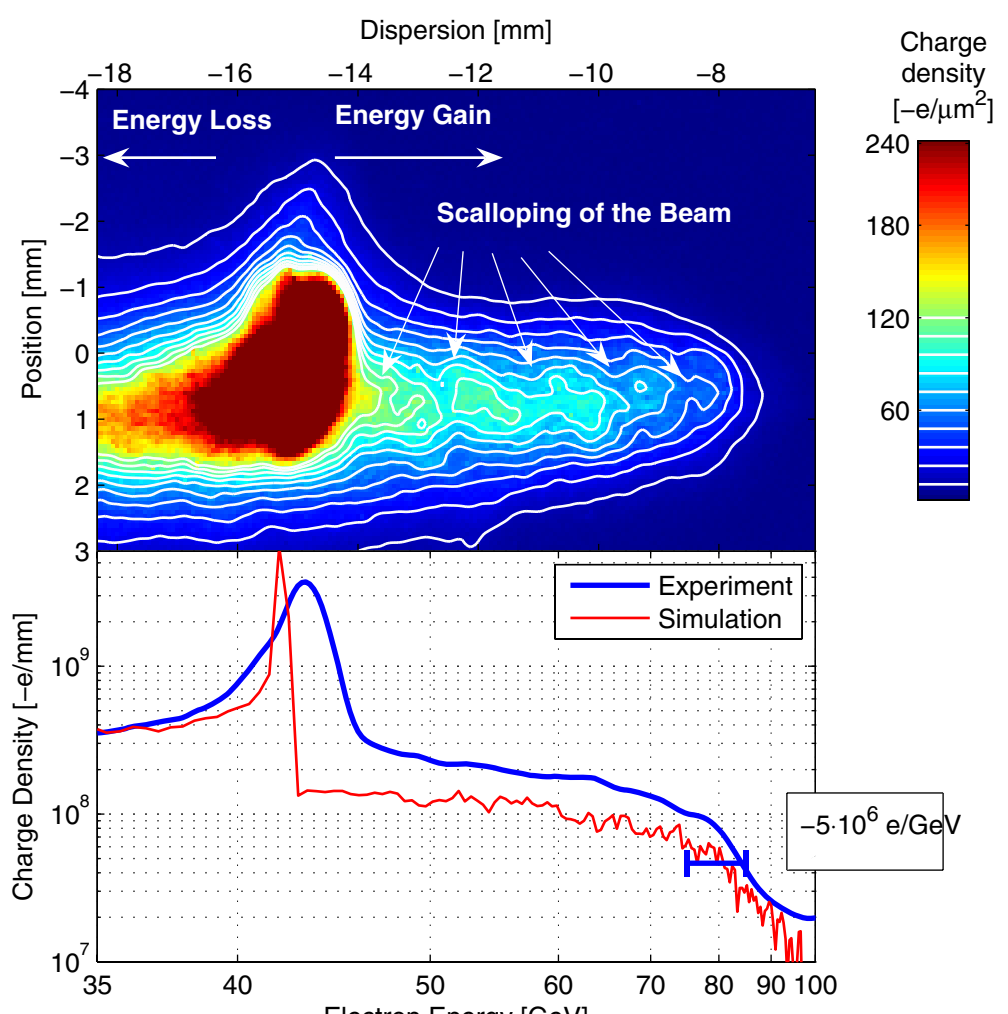

Dispersion [mm]
−18
−16
−14
−12
−10
−8
Charge density [−e/μm²]
240
180
120
60
Energy Loss
Energy Gain
Scalloping of the Beam
Position [mm]
−4
−3
−2
−1
0
1
2
3
Experiment
Simulation
Charge Density [−e/mm]
10⁹
10⁸
10⁷
−5·10⁶ e/GeV
35
40
50
60
70
80
90
100
Electron Energy [GeV]