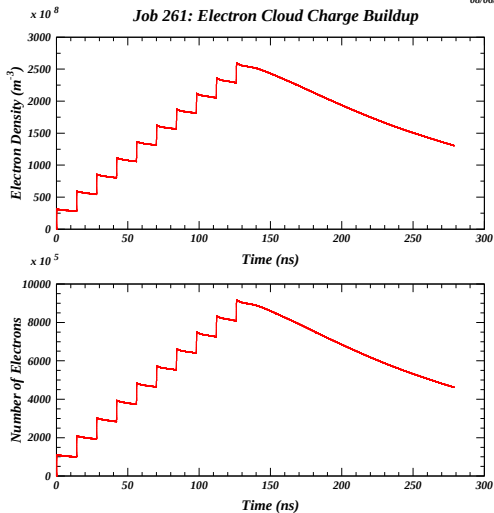


Systematics of Field Gradients

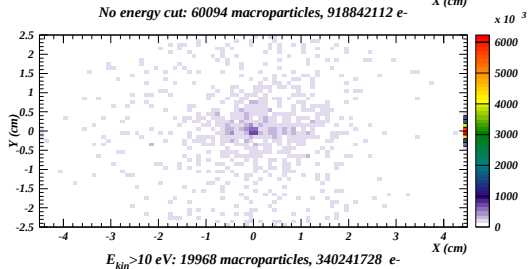
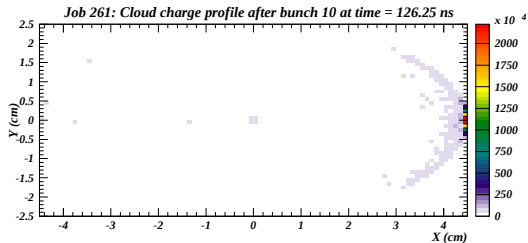
Matthew Lawson and Jim Crittenden

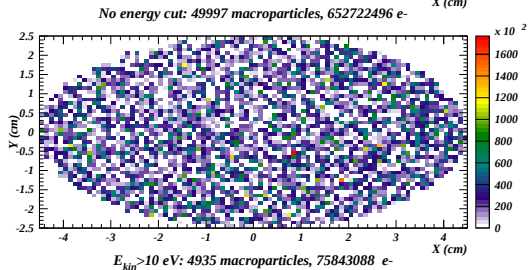
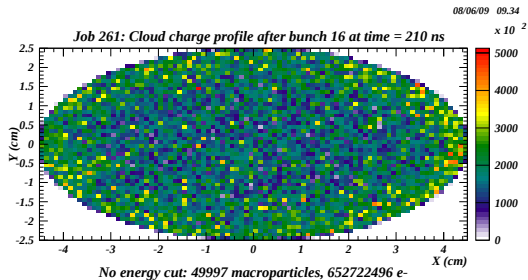
June 11th, 2008

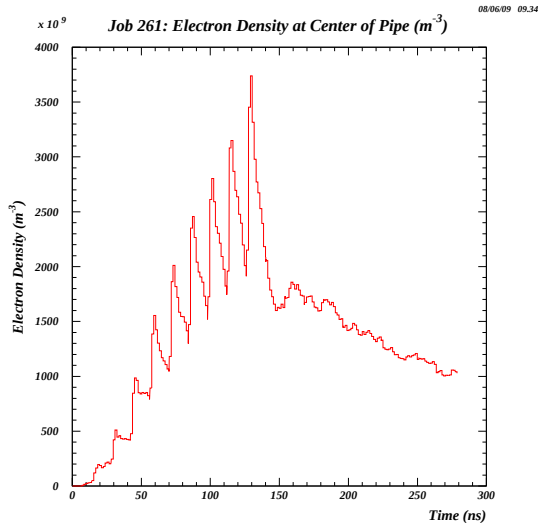
08/06/09 09:34



08/06/09 09:34



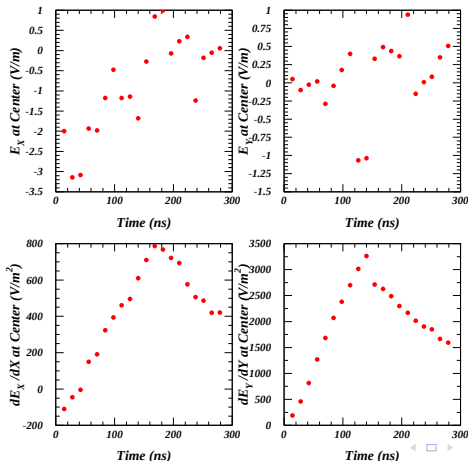




In this plot the electrical field and field gradient are calculated by dividing the plane into a grid and placing the charges at the center of the grid cell they fall in.

08/06/09 09:34

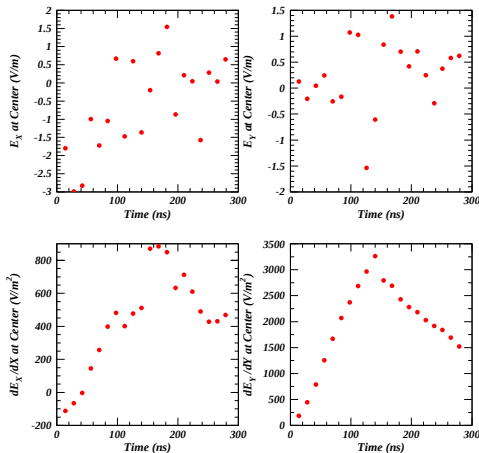
Job 261: Electric Field at Beam (EFGRAD)



In this plot the exact charge locations are used.

08/06/09 15.32

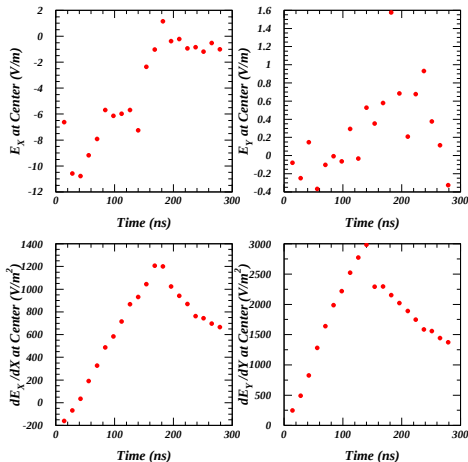
Job 261: Electric Field at Beam (EFIELDG)



Using the grid approximation again, this time with image charges turned off

08/06/09 17.03

Job 263: Electric Field at Beam (EFGRAD)



In this plot the exact charge locations are used again, and image charges are off.

08/06/09 17.02

Job 263: Electric Field at Beam (EFIELDG)

