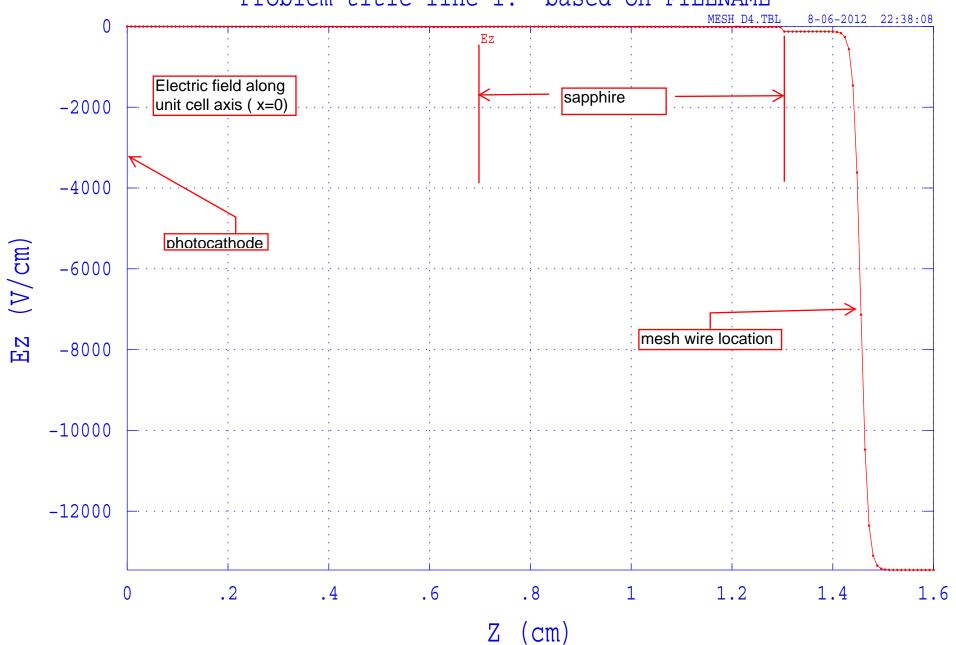
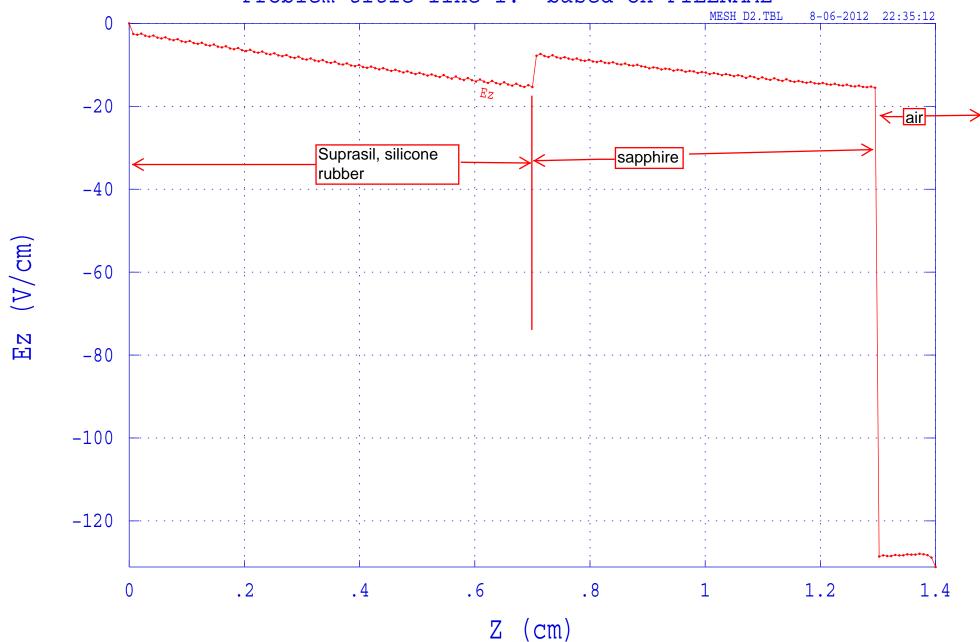


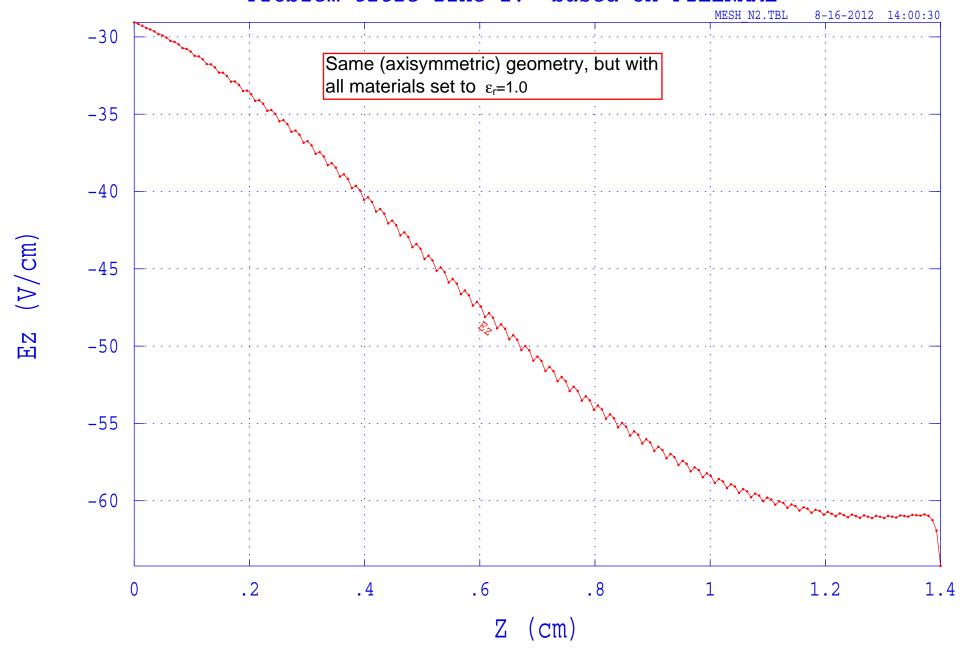
Electric field data from file MESH_DIEL.AM Problem title line 1: based on FILENAME

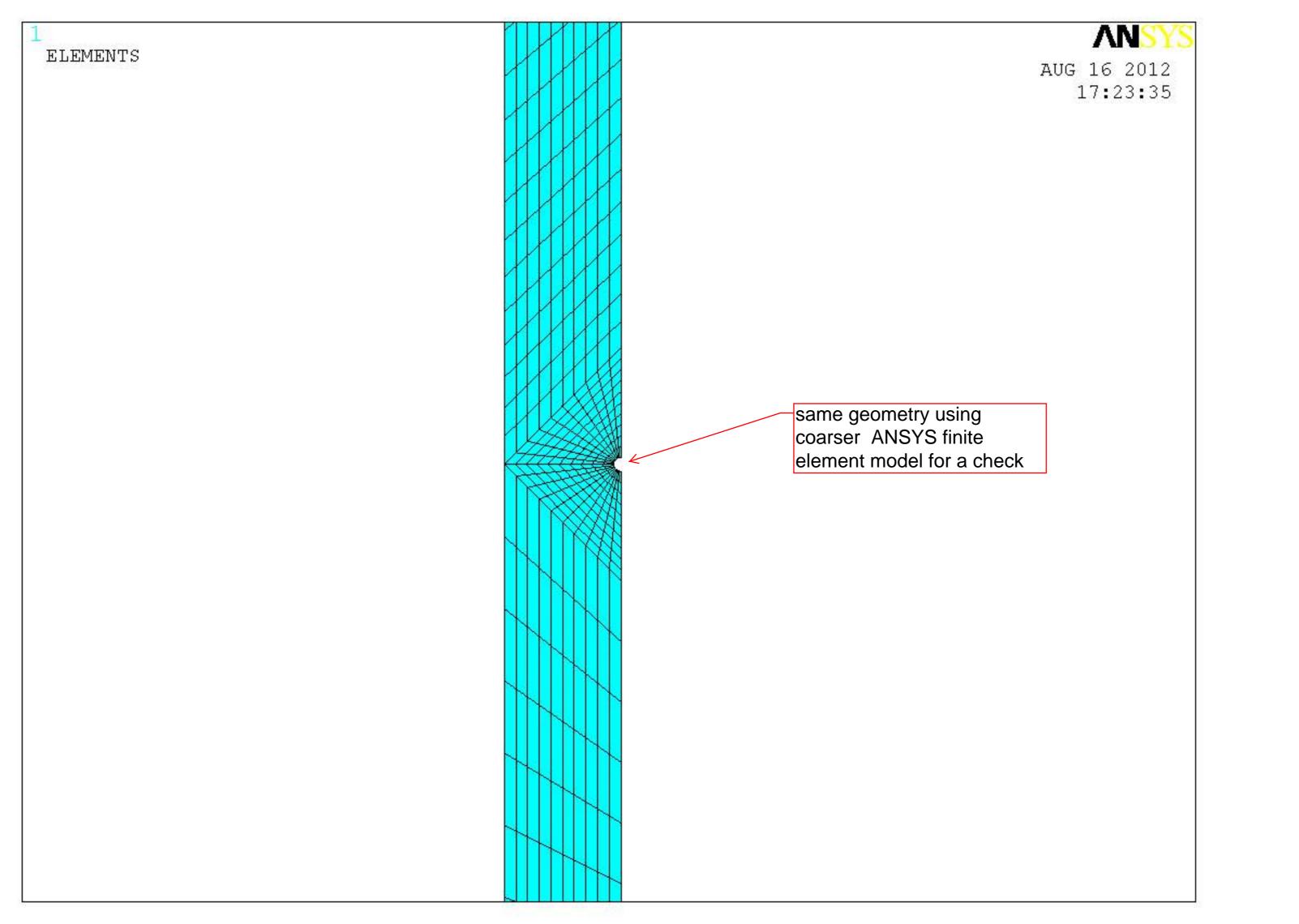


Electric field data from file MESH_DIEL.AM Problem title line 1: based on FILENAME



Electric field data from file MESH_NO_DIEL.AM Problem title line 1: based on FILENAME



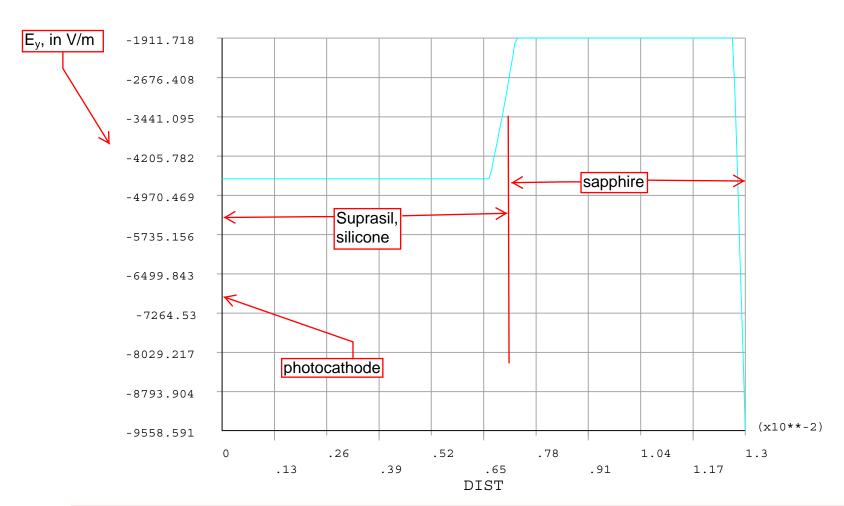


EY

TIME=1 PATH PLOT ANSYS gives somewhat different results for field in low field region, (much coarser mesh)

ANSYS

AUG 16 2012 17:19:33 PLOT NO. 1



Conclusion: A fine mesh screen mounted over the sapphire windows, held at ground potential, results in electric fields that are sufficiently low enough across the PMT (Suprasil) window to avoid electrolysis of the photocathode. There is no need to isolate these mesh screens and run them at some other voltage (to further reduce the field)