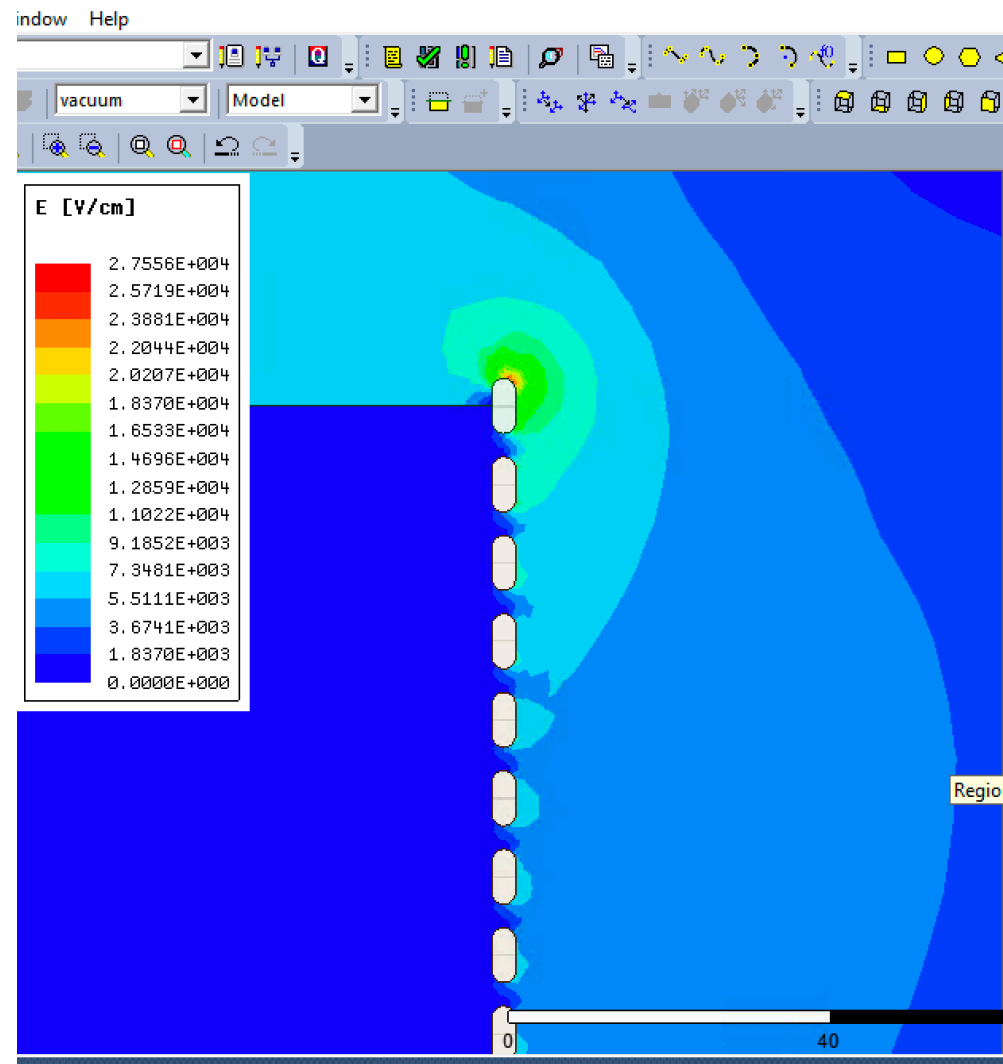
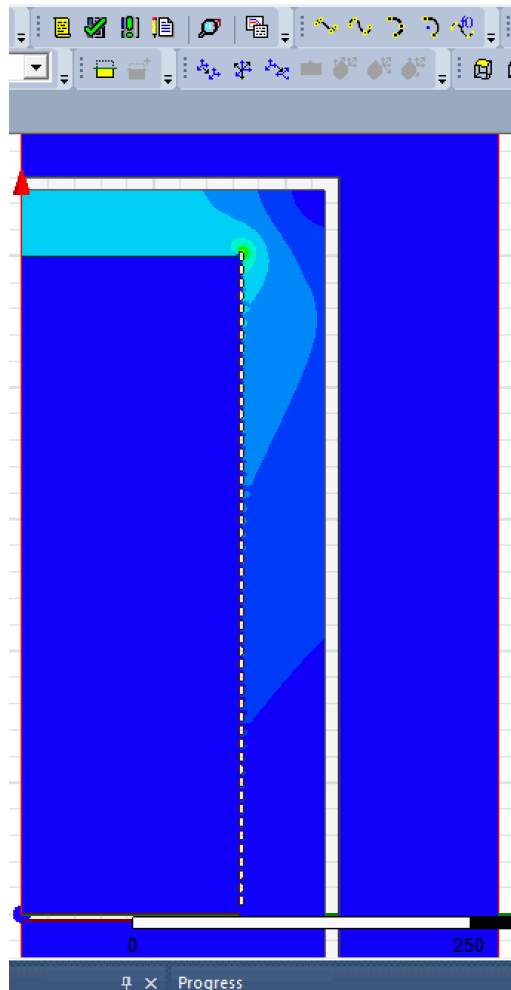


CAVEAT:

**this is not a discussion for
LIME but for the 1 m³**

**i.e. I am not saying we
should change LIME design**

New: 15 May

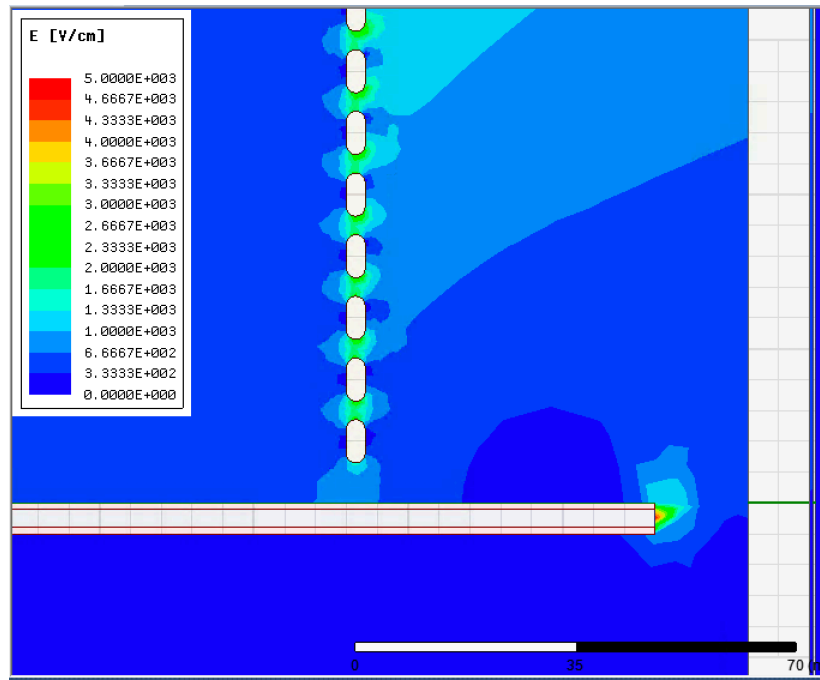
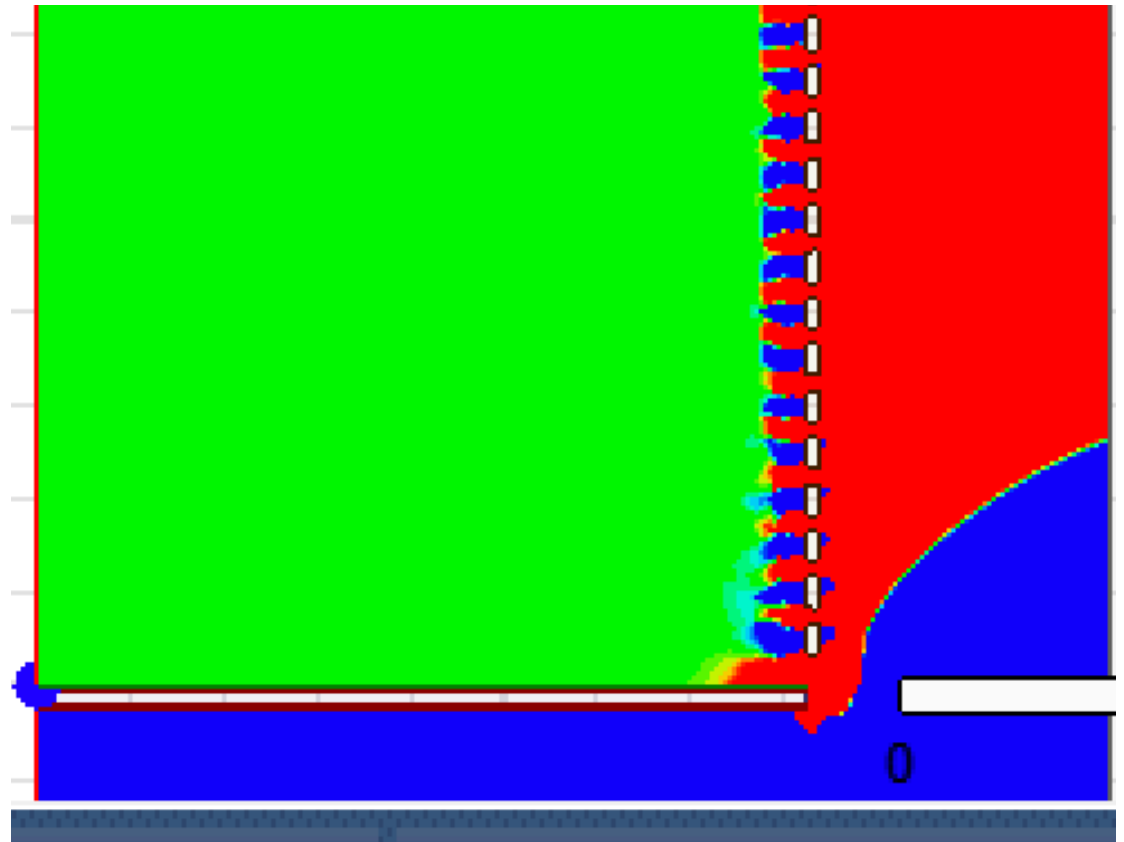
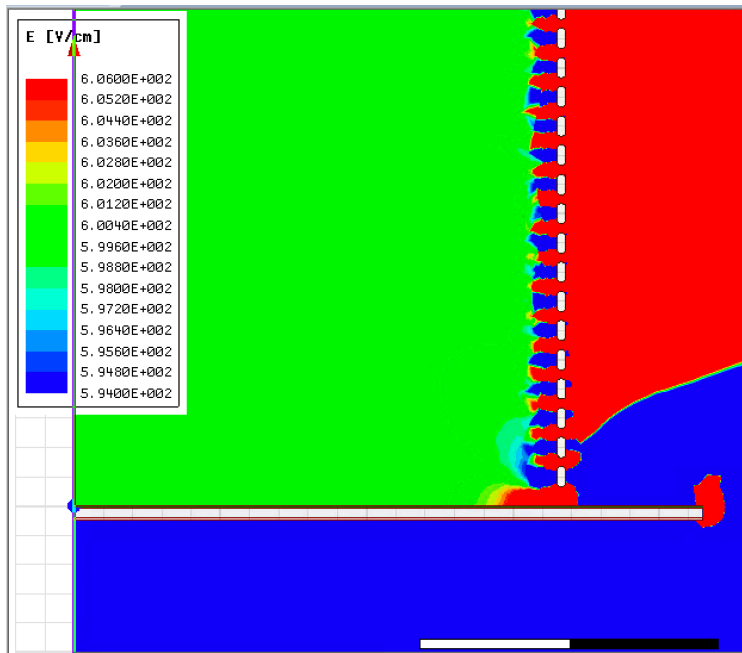


Maximum field with 7 mm full/3 mm empty:
28 kV/cm on cathode

5-10 kV/cm between bandelles →
rule of thumb from Francesco < **20 kV/cm**

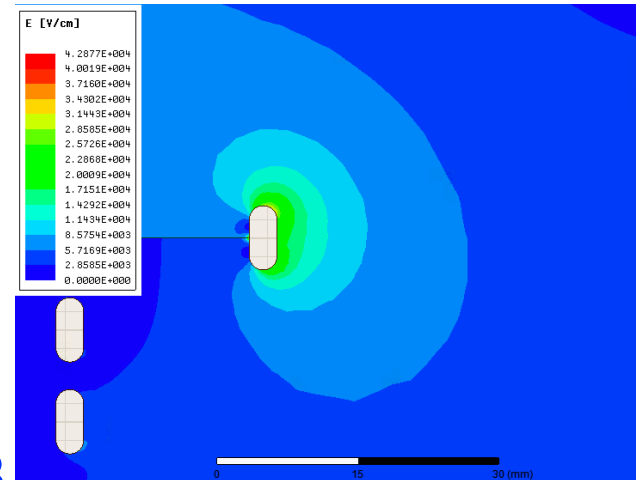
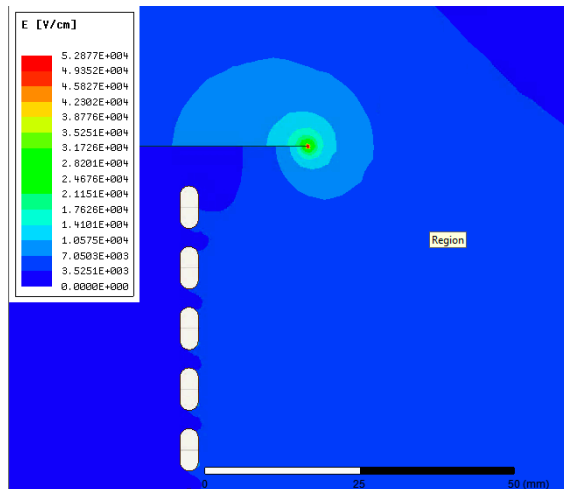
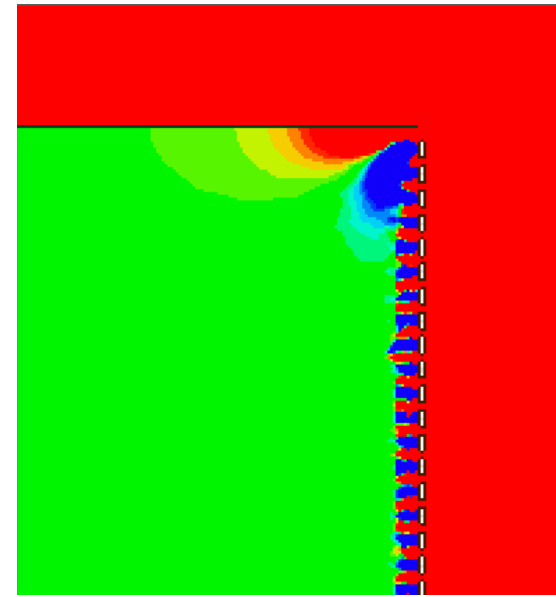
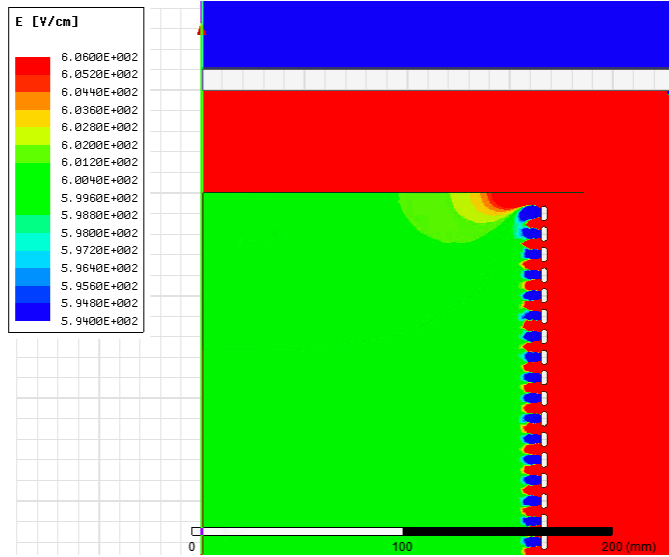
Bandellas 7 mm full / 3 mm empty does NOT discharge and is better than 6 mm full/ 4 mm empty

7 mm full/3 mm empty with GEM 50 mm beyond FC: drift field still ok (showing 1%)



About 5 kV/cm on GEM side, much closer to the vessel than before

7 mm full/3 mm empty with cathode 20 mm beyond FC: drift field is even BETTER!! (showing 1%)



Maximum field with 7 mm full/3 mm empty with cathode 20 mm beyond:

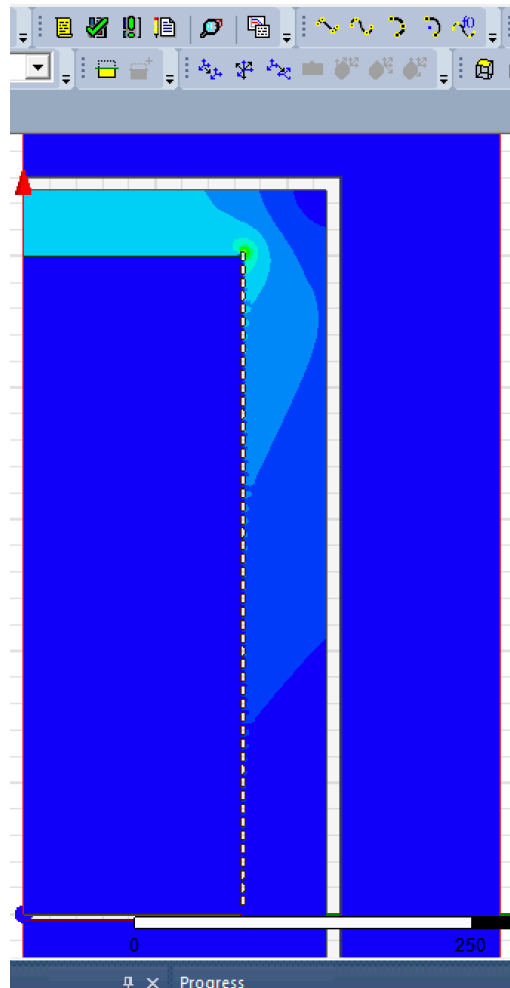
50 kV/cm on cathode → 30 kV/cm with smooth surface
5-10 kV/cm between bandelles → rule of thumb < 20 kV/cm

Maximum field with 6 mm full/4 mm empty:

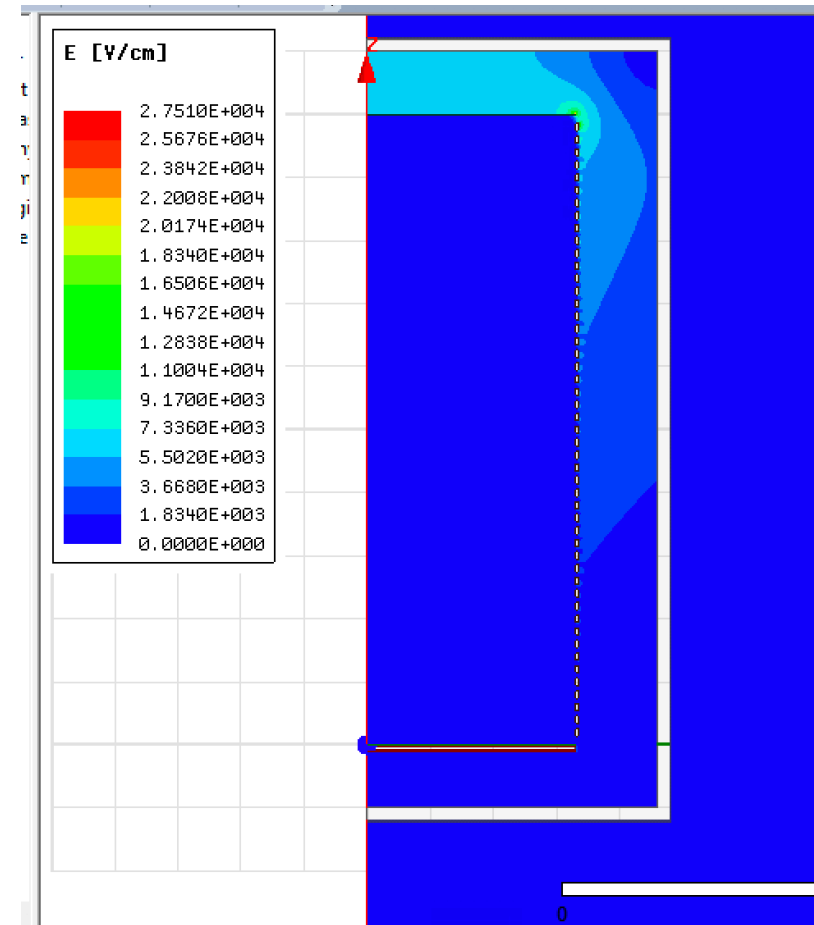
28 kV/cm on cathode

5-10 kV/cm between bandelles →

SAME AS 7 mm full / 3 mm empty

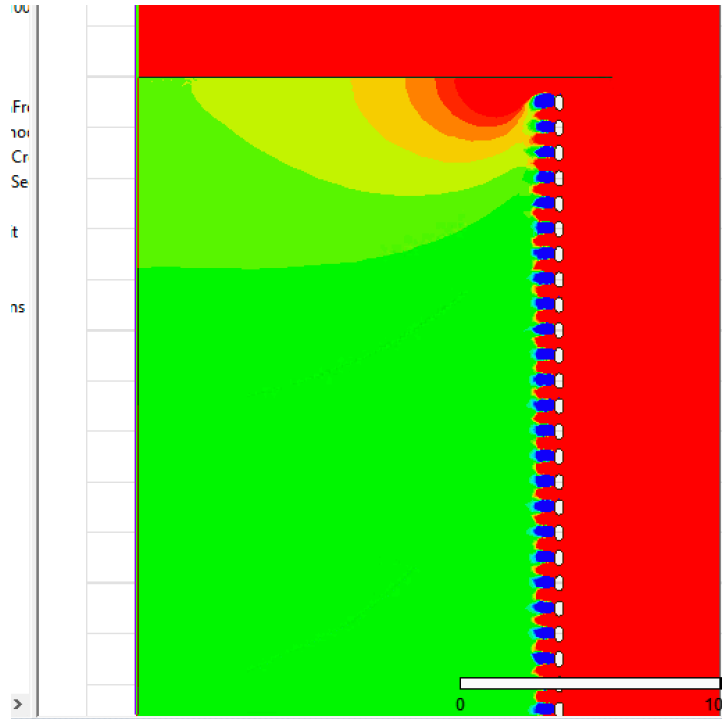
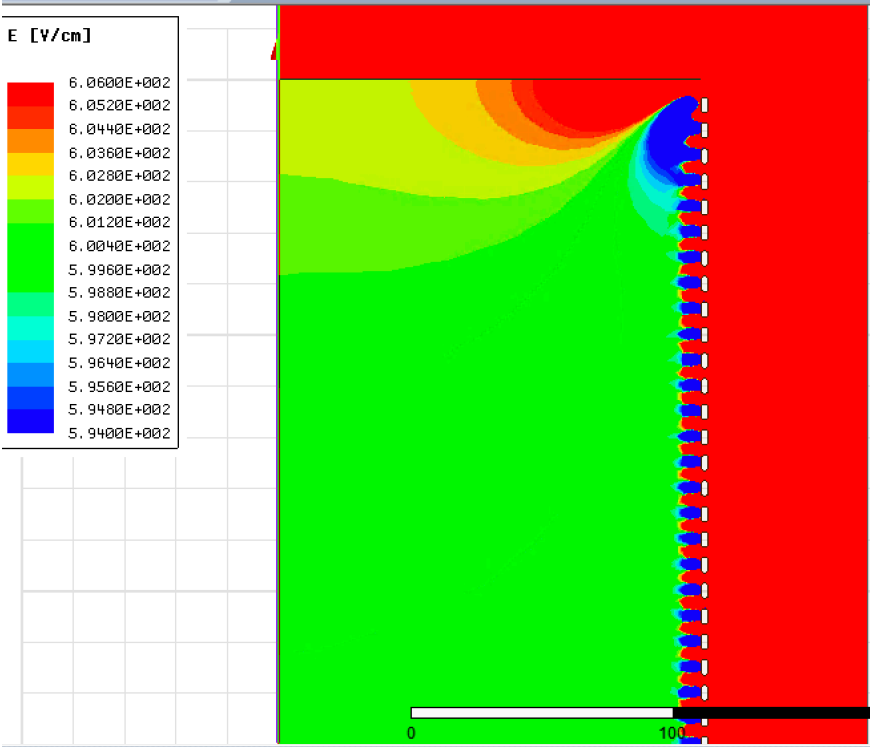


7 mm full / 3 mm empty

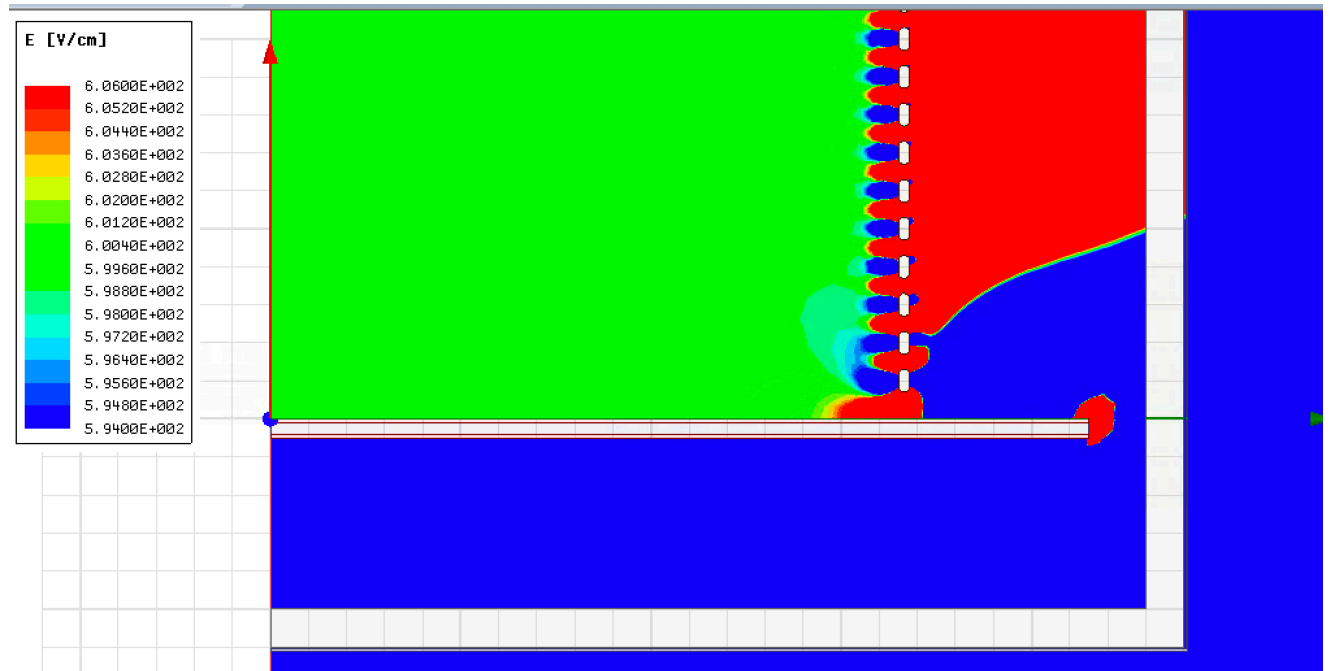
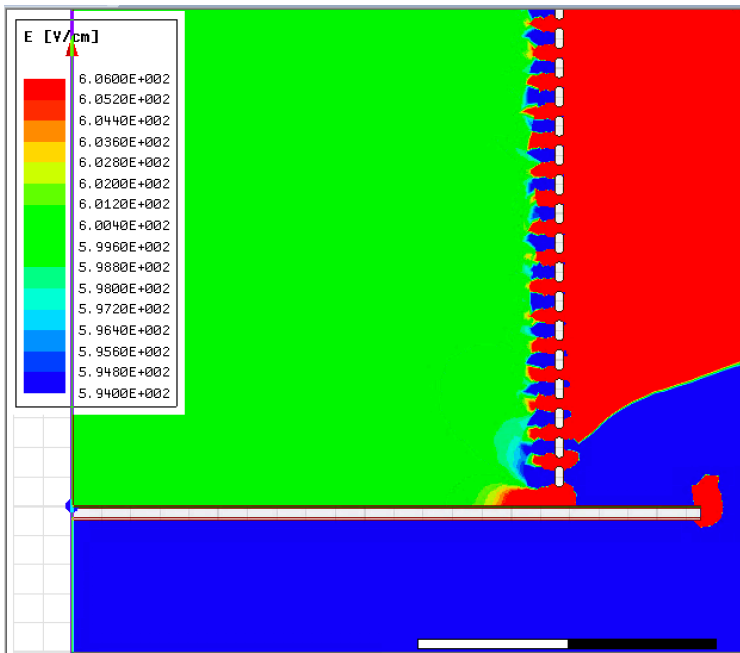


6 mm full / 4 mm empty

6 mm full/4 mm empty with cathode 20 mm beyond FC: drift field is even BETTER!! (showing 1%)



6 mm full/4 mm vs 7 mm full/4 mm



6 mm full/4 mm vs 7 mm full/4 mm

