

## HV Connector and Endcaps, Part II

After the discussion at this week's LST meeting we went back to the drawing board and tried to implement Mauro's suggestion to add a sheath to the HV pins on the endcaps. This will provide mechanical protection and removes any electrical safety concerns (at no time is the metal part of the pin exposed when the connector is being inserted)

The following pages show a bunch of AutoCAD drawings with the modified endcap and HV connector. The design of the HV connector is slightly more complicated but we believe it can still be done by injection molding. Frederico has to tell us whether the endcaps can be built this way.

Please note that there is still some uncertainty in the position of the "mechanical" holes.

The autocad files can be found at

[http://www-physics.mps.ohio-state.edu/~klaus/LST/test/tube\\_endcap\\_mod.dwg](http://www-physics.mps.ohio-state.edu/~klaus/LST/test/tube_endcap_mod.dwg)

and

[http://www-physics.mps.ohio-state.edu/~klaus/LST/test/hvconn\\_tube\\_strain.dwg](http://www-physics.mps.ohio-state.edu/~klaus/LST/test/hvconn_tube_strain.dwg)







