

Upgrading the Middle Wire-Chamber

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February 20, 2007

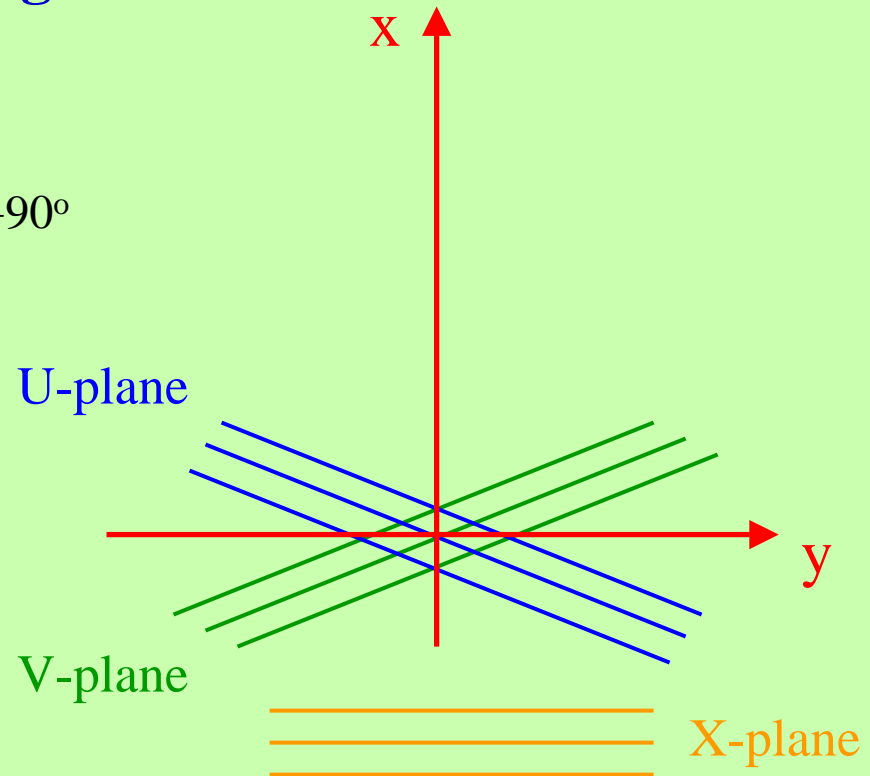
G_{En} Setup

Three large, high-resolution, high-rate drift chambers:

- *1st and 3rd chambers*
 - 2U,2V,2X planes
 - U @ +60°,V @ -60°,and X @ +90°
 - Resolution ~ 150 μm
- *Middle chamber*
 - U, V, and X planes
 - Resolution ~1cm

Active area:

- 1st 140 cm x 35 cm
- 2nd 200 cm x 50 cm
- 3rd 200 cm x 50 cm



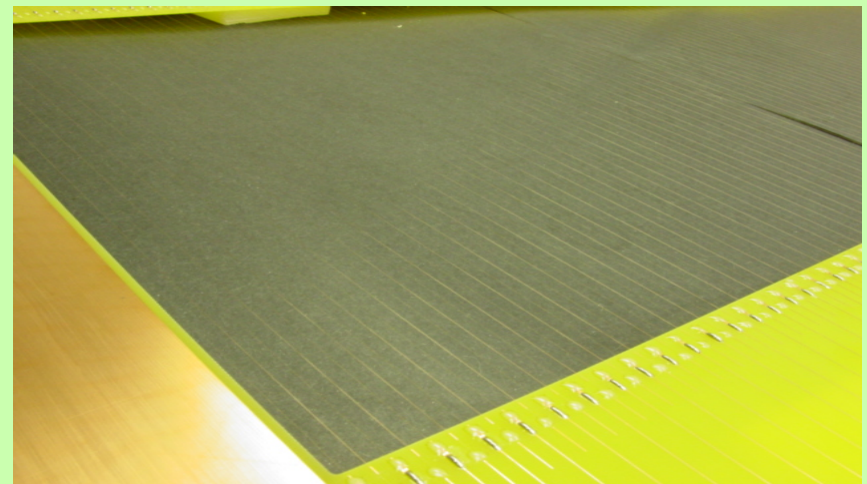
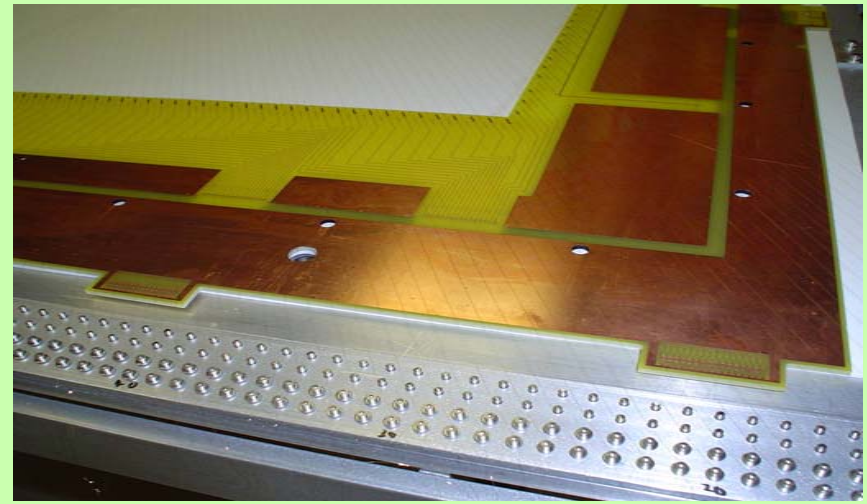
Transversity Setup

Upgrading the middle chamber into a full (2U, 2V, 2X) chamber by adding:

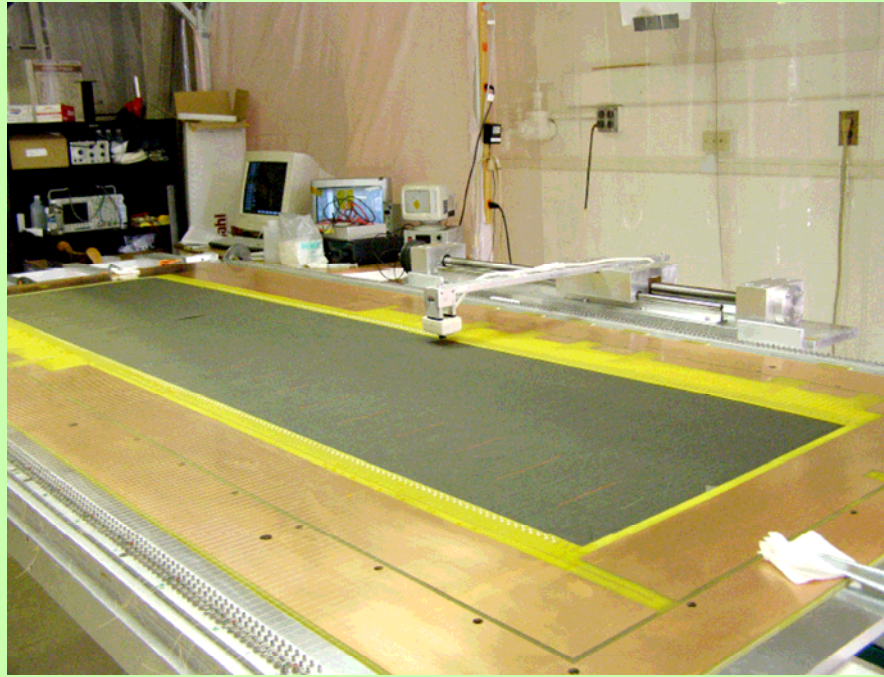
- U, V, and X planes
- Three cathode planes

A full chamber in the middle will provide:

- Higher efficiency
- A spare full chamber in case of emergency
- Better tracking

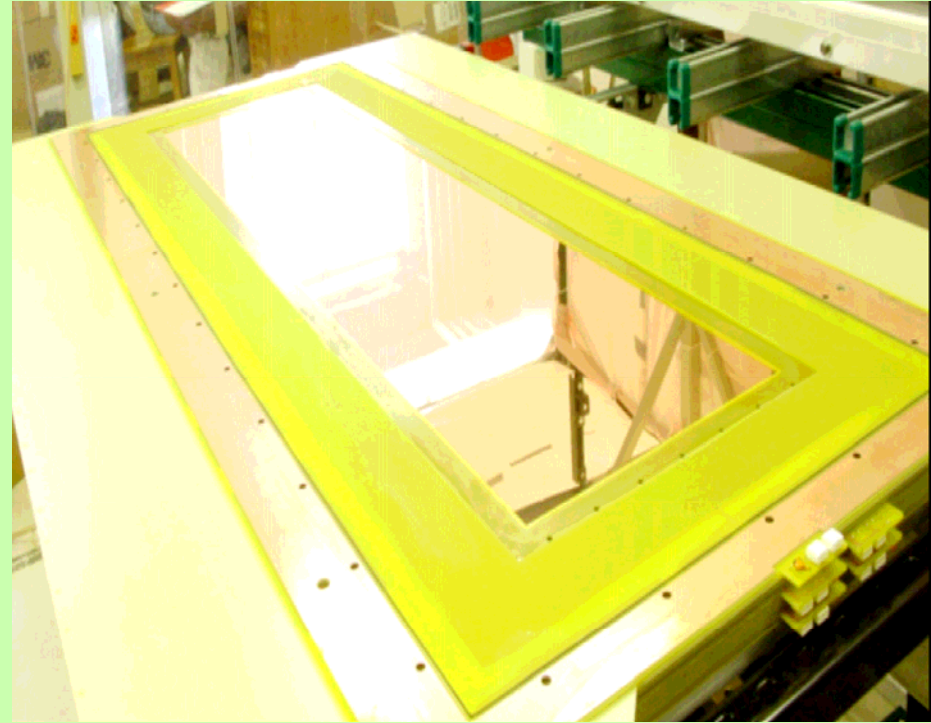


Wire planes



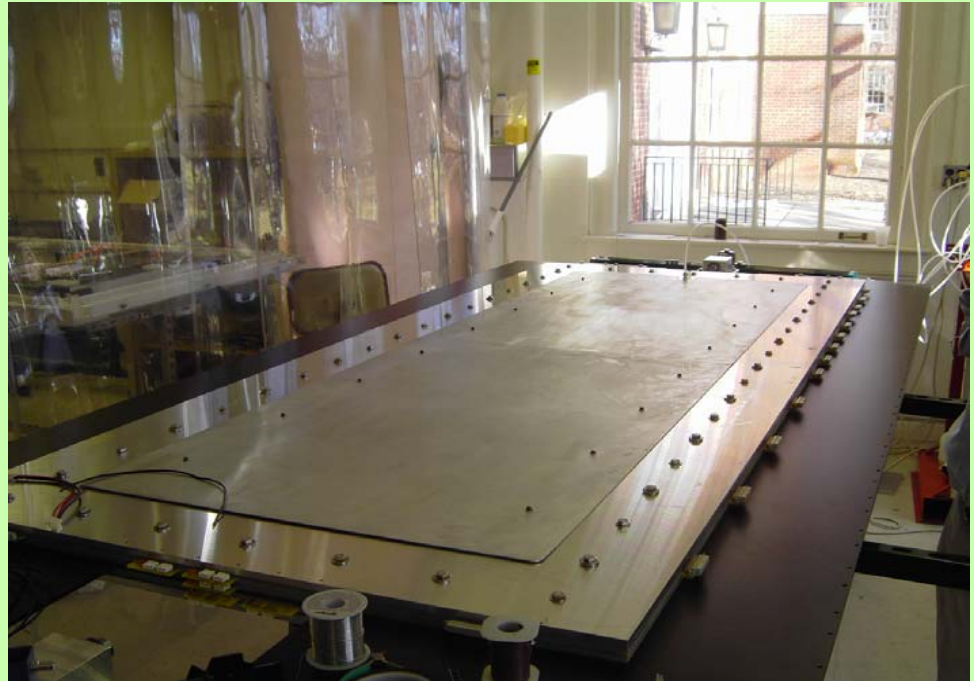
Completed

Cathode planes



- *Starting this week (~1 week per plane)*
- *Will be finished by mid March*

Future Plan



Chamber assembly & testing

1-2 months after arrival of the chamber at UVa.