Progress at Liverpool

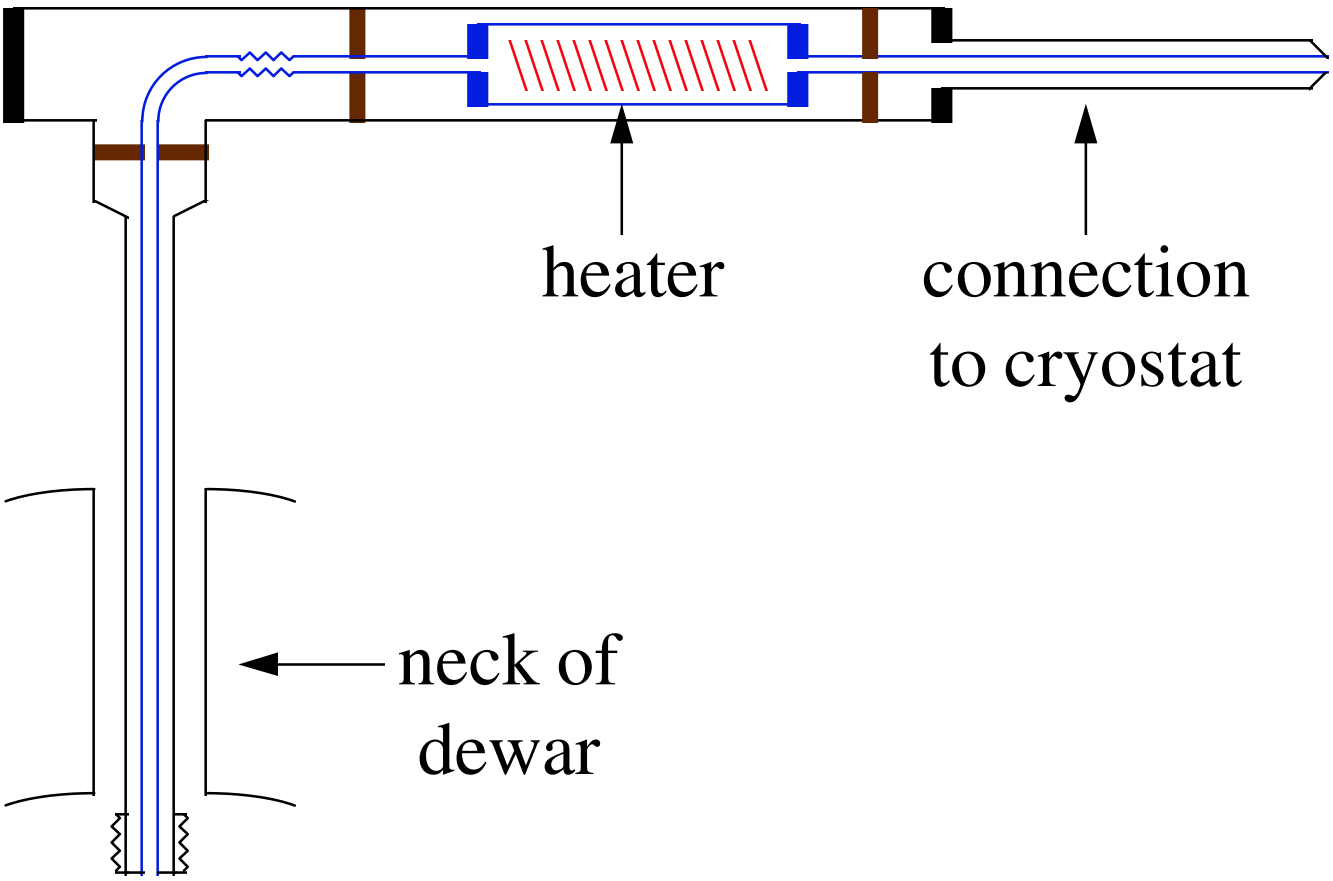
- Software.
  - EMLAB software purchased.
  - Problems running UNIX on new PCs.
- Hardware.
  - Nitrogen dewar being repaired. (Requires ~ 3 weeks, ~ £650.)
  - Drawings of heater unit will be finished next week.
  - Purchasing and construction of heater to start next week.
  - Detailed design of cryostat presently stalled. (Alan Muir involved in serious road accident, we wish both him and his daughter a speedy recovery.)

Gas heater

- Unit designed to function with both N_2 and He.
- Slight overpressure in dewar induced by small heating resistor.
- Control of overpressure:
  - Safety valve.
  - On/off, determined by pressure sensor (large inertia of system makes this adequate).

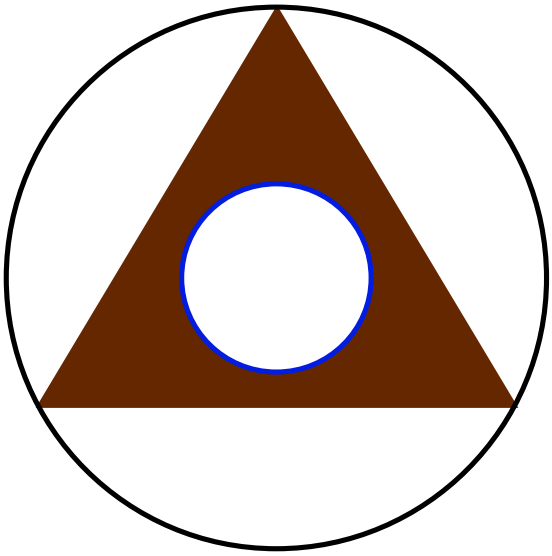
Overview of heater

- Construction largely in thin stainless steel.

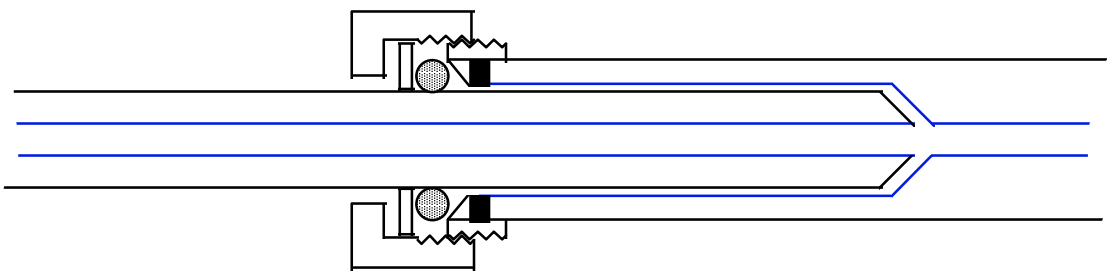


Some details

- Supports



- Joints



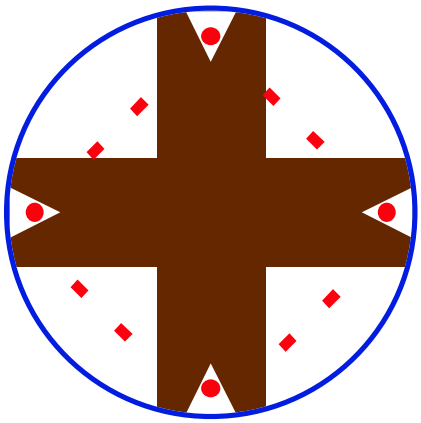
Heater

- Tufnel cylinder cut with deep 4-start thread on lathe.

- Machine so cross-section cruciform along entire length.

Heater cont.

- Wind with two “there and back” coils (second coil as back-up) and insert in heater tube.



- Note, all insulation must be cotton in order to withstand low temperatures.

Web pages

- To help in preparation of talks, would like to start collection of useful pictures/transparencies on:
  - Linear colliders.
  - Vertex detectors
  - High energy e^+e^- physics.
  - CCDs.
  - Anything else of interest!
- Please send me relevant pictures for inclusion on our web site.