

# **Installation Procedures**

**Modules were assembled and tested in the only room we could get.**

## **NO CLEAN ROOMS**

**The first year we shared this room with a mech. work-shop.**

**You need a clean hit to destroy a HERA-B silicon module.**

**Modules are resistant to**

**Chain-Smokers**

**Any amount of dust**

**Russians grinding**

**steel beams**

**However, it was nice to get a wall to protect eyes and ears.**

# Modes of Destruction

**Deep inelastic scattering with the floor or a screw-driver.**

*This has little style.*

**Coating with gooey, slightly acidic cooling fluid.**

does not affect silicon  
**eats some bond wires**  
**shorts out some pads**

*This is innovative,  
but incomplete.*

Parts of the modules  
still work and some  
parts are recoverable.

**However, just don't.**

# Final Remarks

**It is actually quite hard to damage silicon detectors by anything but brute force. It is much easier to destroy read-out electronics and bonds.**

**It is good to have modules that survive most mishaps.**

**It is essential for commissioning to test each channel of each module and keep the information available.**



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**Somebody has to do it.....**