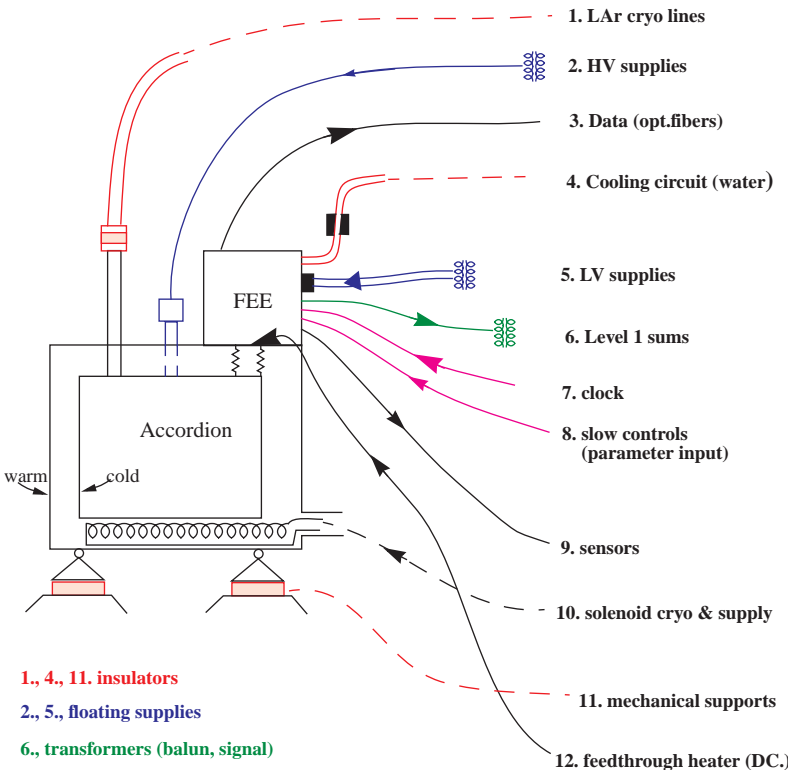


# LAr Cal. Vital lines (i.e., Potential ground loops)



**1., 4., 11. insulators**

**2., 5., floating supplies**

**6., transformers (balun, signal)**

**7., 8. opto-couplers (or transformers)**

**9. insulate sensors; different techniques at various receivers**

**10. solenoid line to be insulated, power supply floating**

**BUT.... a major effort required**

**12. heater insulated**