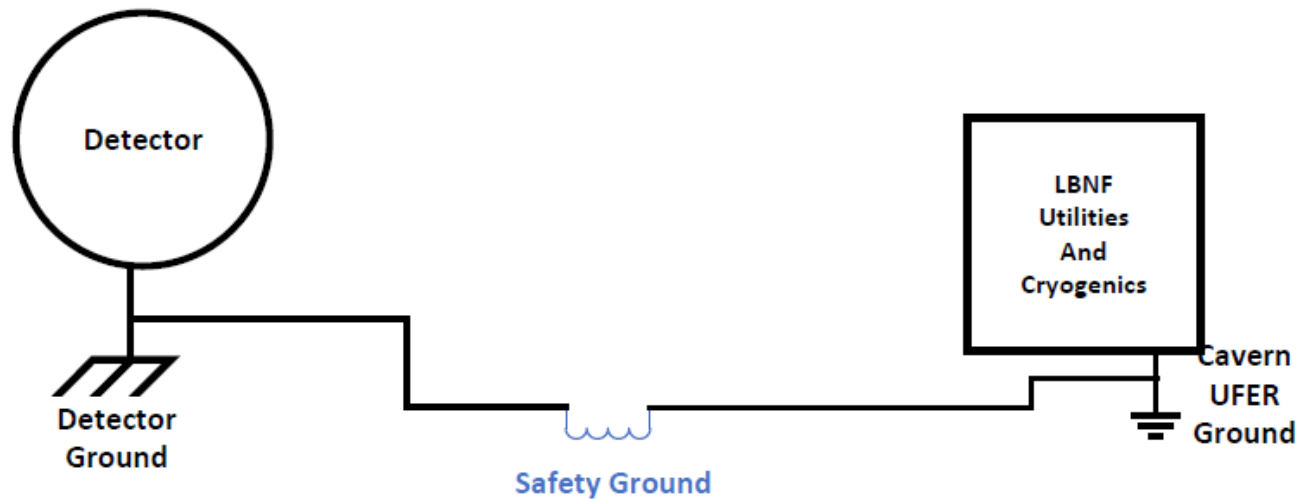


# Dune Grounding Issues Impedance Concerns

T. Shaw

11APR2018

# Detector Ground Isolation



# Intermediate small test structure

- For Discussion - Small scale tests of detector ground isolation
  - Is it possible to do a test of our detector ground isolation in an available drift area?
    - Requirements:
      - Test area must be close to a good “building” ground reference; copper cable bonded to the “building” reference must be available for us to hook-up to.
      - New concrete pad (approximately 1 meter square and same depth as planned for final pad) must be placed on **dry** drift floor.
      - Detector could be mocked up using a steel block resting on a thin piece of G10 on top of the new concrete pad.
    - Tests:
      - Megger test between detector (steel block) and copper cable “building” reference
      - “DUNE” Impedance Monitor can be installed in the mock-up
      - Special tests to create “noise” on building ground and see if we can pick it up on detector block.