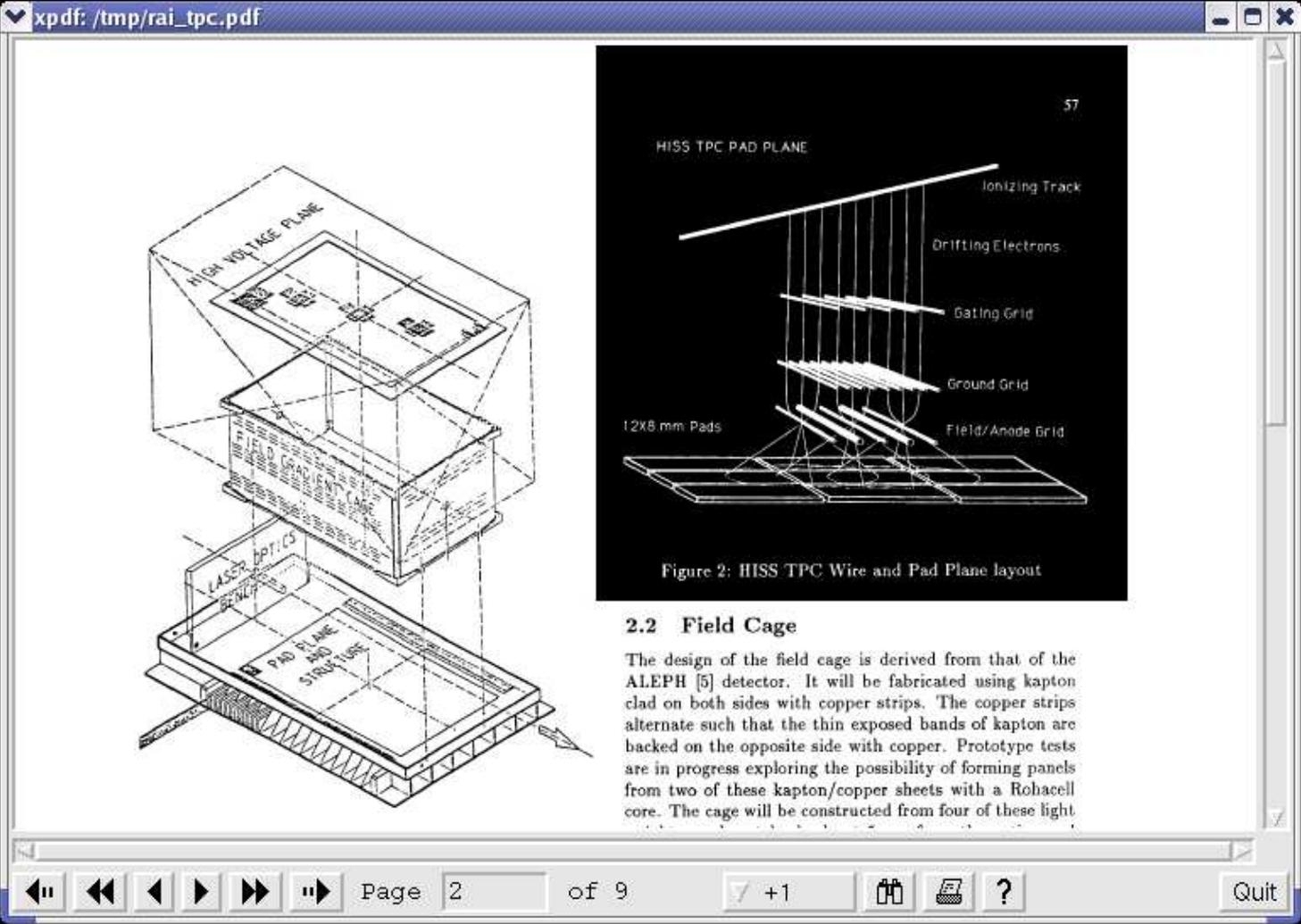


## TPC Status

- Installation: waiting on \$\$ for support structures (stand, rails, cart)
- TPC Stick Tests in hands of Bob Jones Group
  - ✓ Has all necessary equipment from mipp
  - ✓ Fabricated clock module (for TPC stick digitization)
  - Diagnose bad sticks (dominant contribution to bad channels)
- Gating Grid Driver
  - ✓ Design from STAR in hand
  - ✓ Mipp needs understood
  - Give to Bob Jones group after Stick testing
- DAQ
  - ✓ Class layout
  - Coding in progress (~2 months)
- Offline
  - ✓ Progress on TPC Digitization

# TPC Gating Grid



The screenshot shows a PDF viewer window titled "xpdf: /tmp/rai\_tpc.pdf". The main content area displays two technical diagrams. The left diagram is a 3D exploded view of the detector components, including a "HIGH VOLTAGE PLANE" at the top, a "FIELD GRADIENT CAGE" in the middle, and a "PAD PLANE AND STRUCTURE" at the bottom. A "LASER OPTICS BEAM" is shown entering from the left. The right diagram, labeled "HISS TPC PAD PLANE" and "Figure 2: HISS TPC Wire and Pad Plane layout", shows a cross-section of the detector. It features an "Ionizing Track" at the top, followed by "Drifting Electrons" moving downwards. Below the electrons are three horizontal grids: a "Gating Grid", a "Ground Grid", and a "Field/Anode Grid". At the bottom, "12x8 mm Pads" are arranged in a grid. The page number "57" is visible in the top right corner of the diagram area.

**2.2 Field Cage**

The design of the field cage is derived from that of the ALEPH [5] detector. It will be fabricated using kapton clad on both sides with copper strips. The copper strips alternate such that the thin exposed bands of kapton are backed on the opposite side with copper. Prototype tests are in progress exploring the possibility of forming panels from two of these kapton/copper sheets with a Rohacell core. The cage will be constructed from four of these light