**Mu2e calorimeter readout electronics**

**Mu2e calorimeter:**
- 1348 undoped CsI crystals
- Custom 6 cells SiPM
- 2 SiPMs per crystal
  - 2696 electronic channels

**Harsh environment for detector and electronics:**
- Ionizing and non-ionizing radiation
- Magnetic field (1T)
- Vacuum

Need to qualify the system for dose (12 Krad) and neutrons \(5 \times 10^{11} 1 \text{ MeV Si}\)

**Readout electronics:**
- FEE: amplification, shaping
- Mezzanine board: signal collecting, I&V monitors
- Digitizer (DIRAC): 20 channels/board.

**Digitizer: 200 MHz sampling, 12 bits**
- ADC: ADS4229
- FPGA: Polarfire MPF300
- DC-DC: LMZM33606
- LDO: MIC69502
- Jitter Cleaner: LMK04828
- Optical Transceiver: CERN VTRX

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