
Update on 18 bit ADCs

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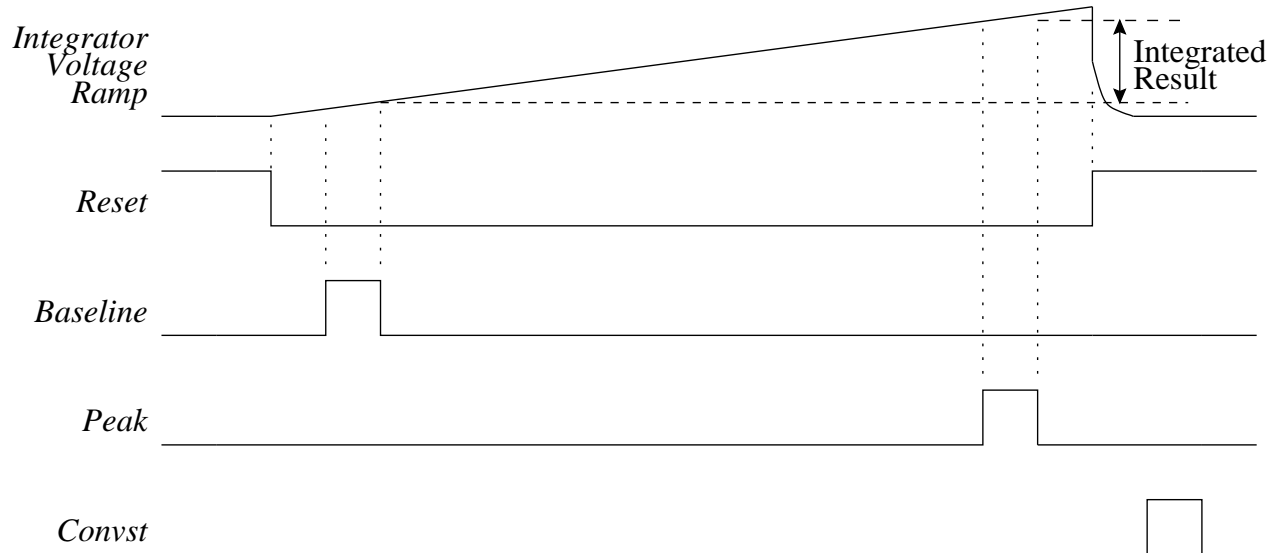
Ed Jastrezemski

Bob Michaels

specification: http://hallaweb.jlab.org/experiments/HAPPEX/docs/happex_adc18.pdf.

Description of 18 Bit ADC

- Replaces obsolete Princeton/Harvard 16 bit ADC.
- Similar Functionality
- 18 bits
- Multiple sampling of baseline and peak
- Voltage and current modes



Status of 18 Bit ADC

- 3 boards tested by DAQ group. “Meets spec.” !!
- In my hands 2 weeks ago. Writing code, learning.
- Plans:
 - Pedestal noise studies – Jan 2007
 - PMT electronics – Jan/Feb 2007
 - Revive Lumis during Jan shutdown
 - Lumi tests during Pb(e,e'p) – Apr 2007
→ 30% PREX target, $2 \times I_{\text{beam}}$
- When passes inspection, make 8 boards (32 chan) – July 2007