

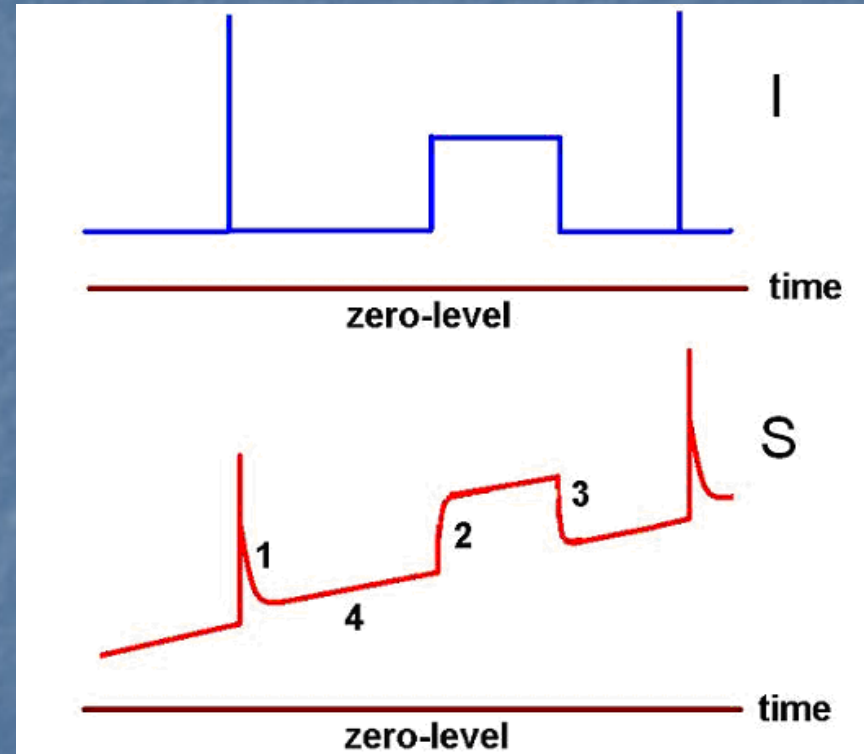
MIPS Extended Source Calibration

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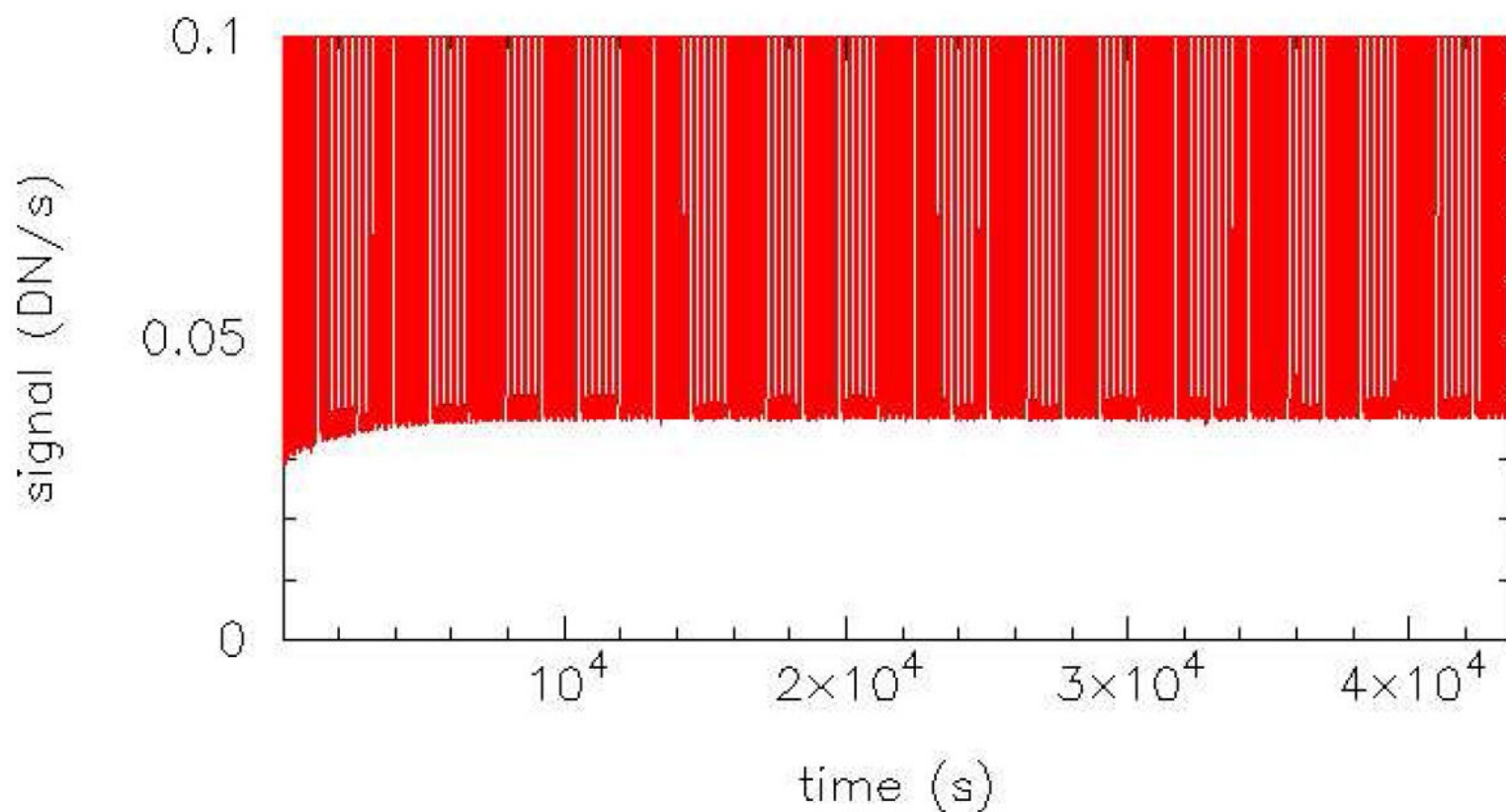
Germanium Detector Response

(Figure taken from Brett Wells reports on MIPS)

- I – Incident flux
- S – Array output
- 1 – Stimflash latents
- 2 – Transient (incremental)
- 3 – Transient (decremental)
- 4 – Drift



Example of Drift Effects



Transients

- Problem in 70, 160 μm arrays
- Understood for point sources
- Short term effects understood
- Long term effects not known
(data needed to examine problem)

Drift

- Problem mainly for 70 μm array
 - 3% per hour effect for whole array
 - 0 – 8% per hour effect for individual pixels
- Understood but complicated, counterintuitive
- May be corrected by linear, scalar functions

Helpful Observing Strategies

- Use overlapping scan legs
- Repeat mapping with second AOR
- Use total power measurements to determine zero points in field

Comments on MIPS Enhancer

- Will follow individual pixels
- Can correct drifts, transients in individual pixels