

History

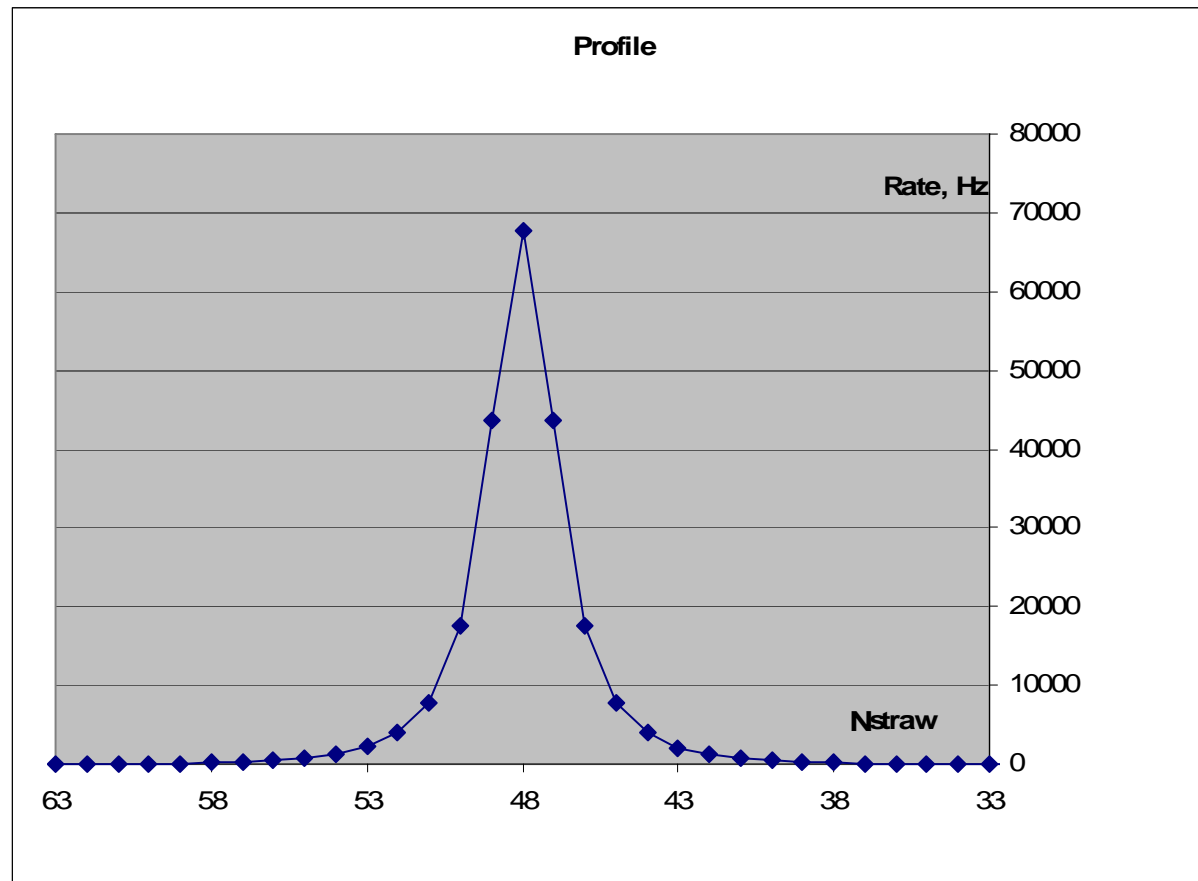
- Module M017 from Nikhef has been irradiated (Station 1, layer 0, quadrant 1, module 1).
- Module has been heated in CERN barrack during winter last year.
- Module has been flushed with CO₂ after installation since ~may '07.
- Integrated gas exchange ~500 volumes
- Irradiation over 86 hours with ⁹⁰Sr source.
- Gas flow ~0.4 volume exchanges per hour.
- For more details of the irradiation see http://www.physi.uni-heidelberg.de/~bachmann/lhcb/IrradiationCERN/M017/M017_History.txt



Beam profile from source

- ^{90}Sr source with an activity of 0.78mCi used for irradiation.

Count rate vs. straw

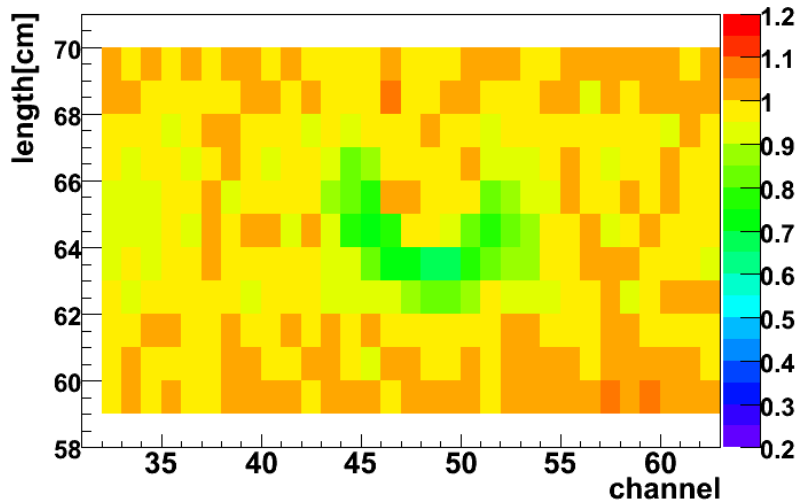


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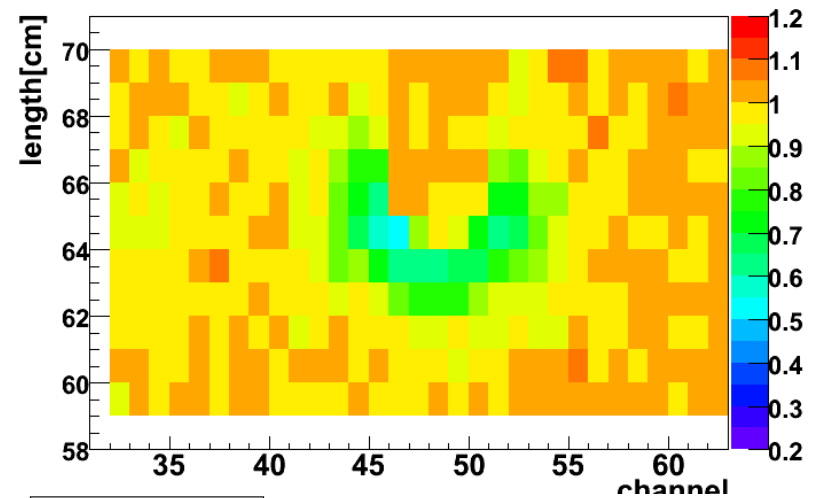
Results from scanning M017

- ^{55}Fe used for scanning.
- Ratio of pulse height used: $R = \text{PH}_{\text{after}} / \text{PH}_{\text{before}}$.
- No correction for pressure/temperature has been applied.

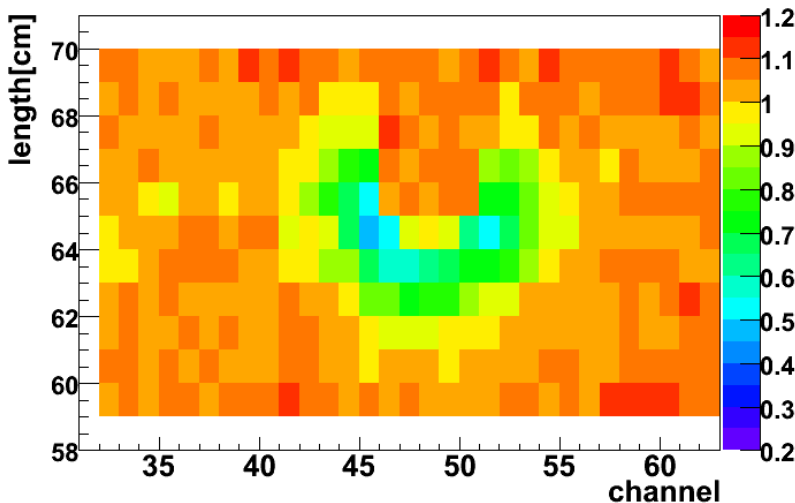
M017: Scan 1, 26h



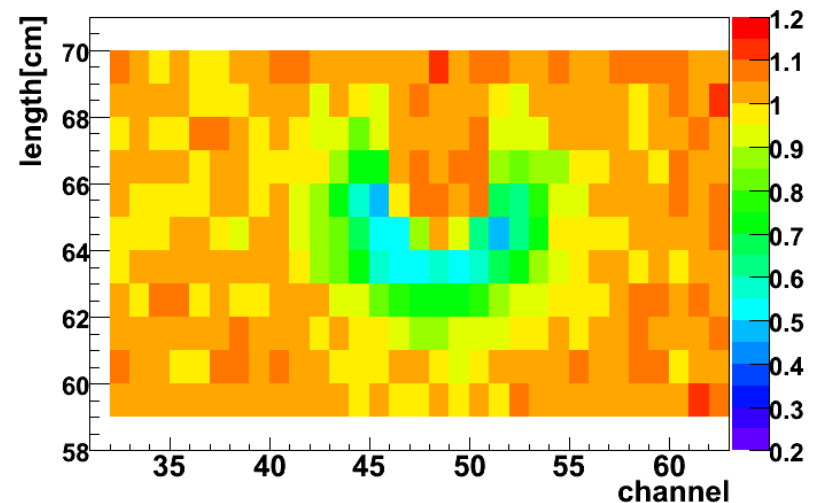
M017: Scan 2, 47h



M017: Scan 3, 69h

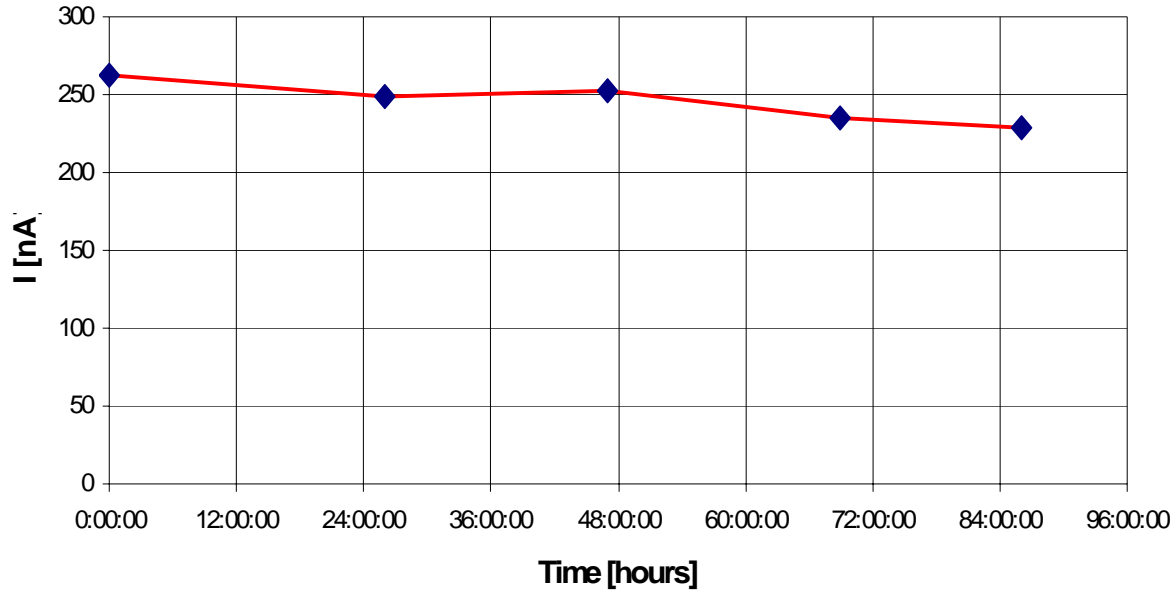


M017: Scan 4, 86h

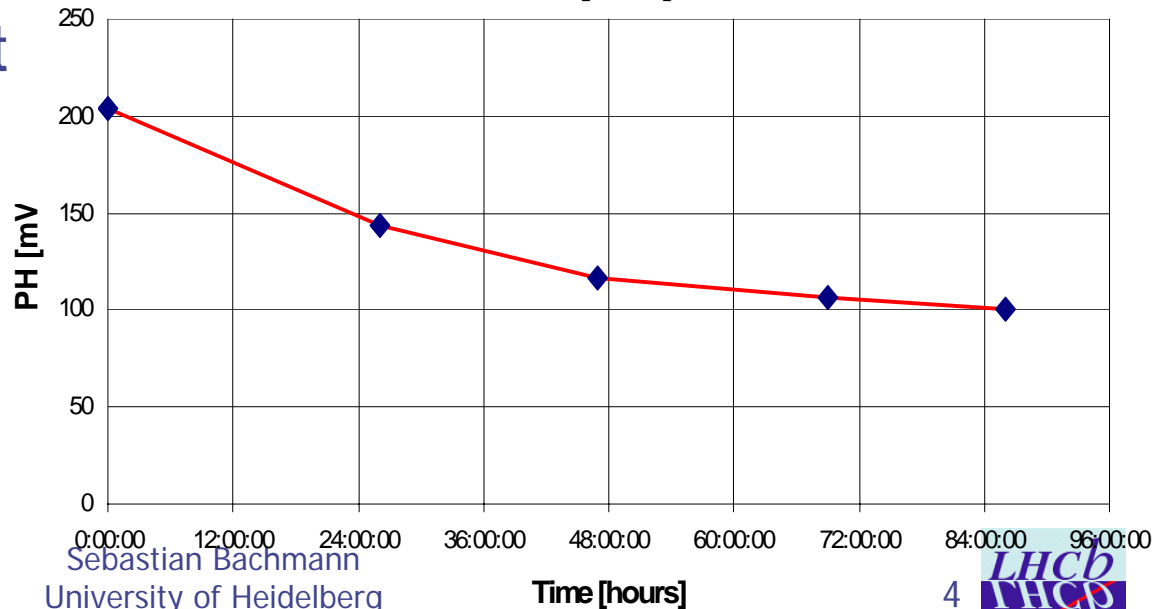


Time evolution

Total current from ^{90}Sr source:



Minimum pulse height from ^{55}Fe source:



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Sebastian Bachmann
University of Heidelberg

Time [hours]

4



History

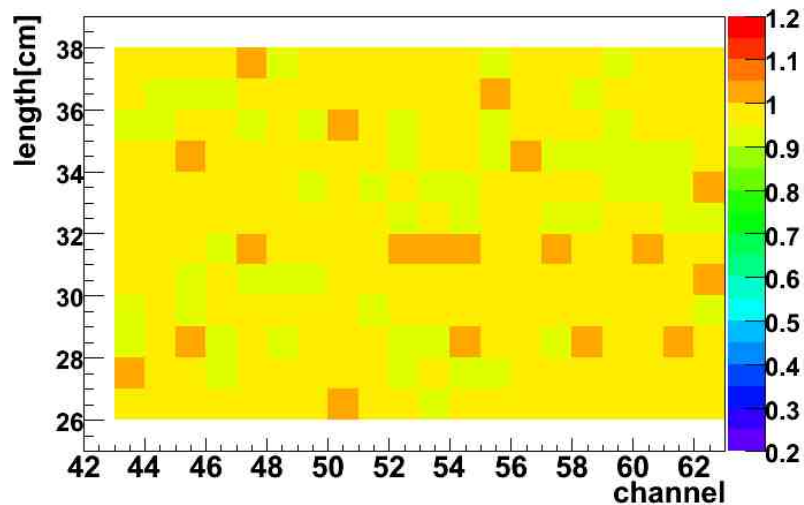
- Module M188 from Heidelberg has been irradiated (Station 1, layer 0, quadrant 1, module 6).
- Module has been heated in CERN barrack during winter last year.
- Module has been flushed with CO₂ after installation since ~may '07.
- Integrated gas exchange ~500 volumes
- Irradiation over 47 hours with ⁹⁰Sr source.
- Gas flow ~0.4 volume exchanges per hour.
- For more details of the irradiation see http://www.physi.uni-heidelberg.de/~bachmann/lhcb/IrradiationCERN/M017/M017_History.txt



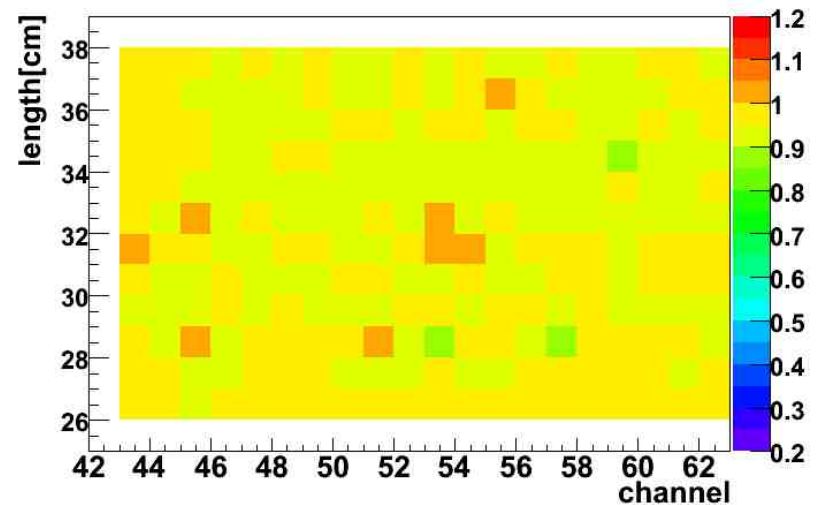
Results from scanning M188

- ^{55}Fe used for scanning.
- Ratio of pulse height used: $R = \text{PH_after} / \text{PH_before}$.
- No correction for pressure/temperature has been applied.

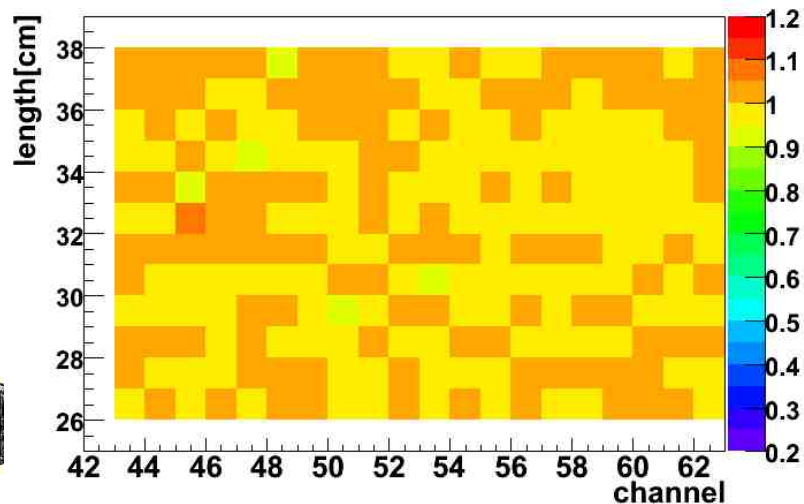
M188: Scan 1, 15h



M188: Scan 2, 25h

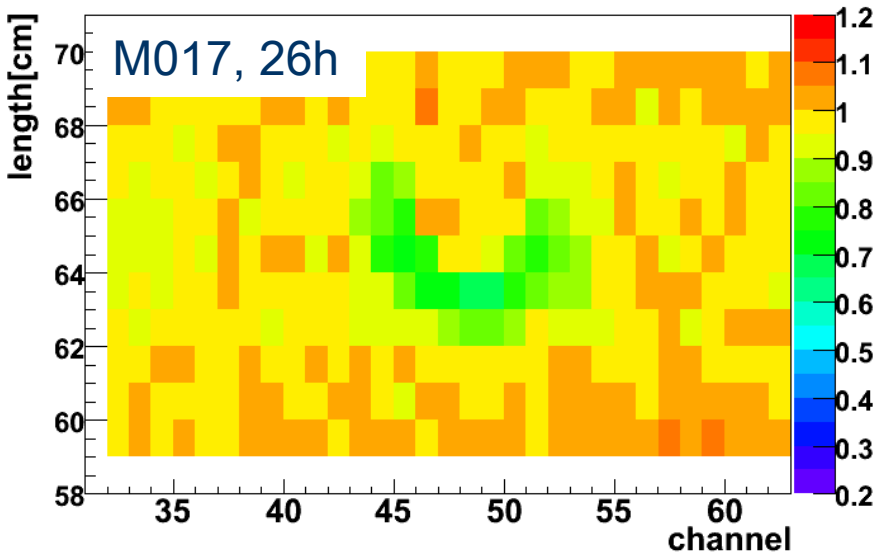


M188: Scan 3, 47h

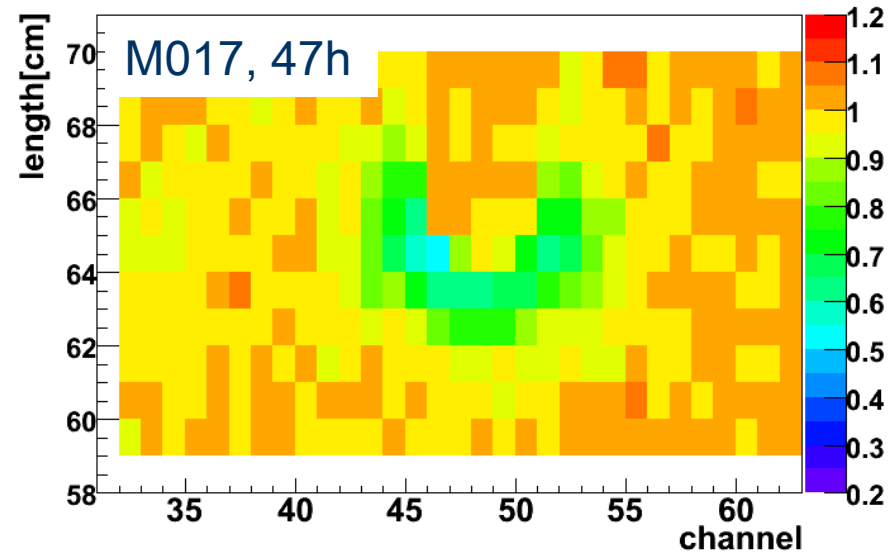


Compare M017 \leftrightarrow M188

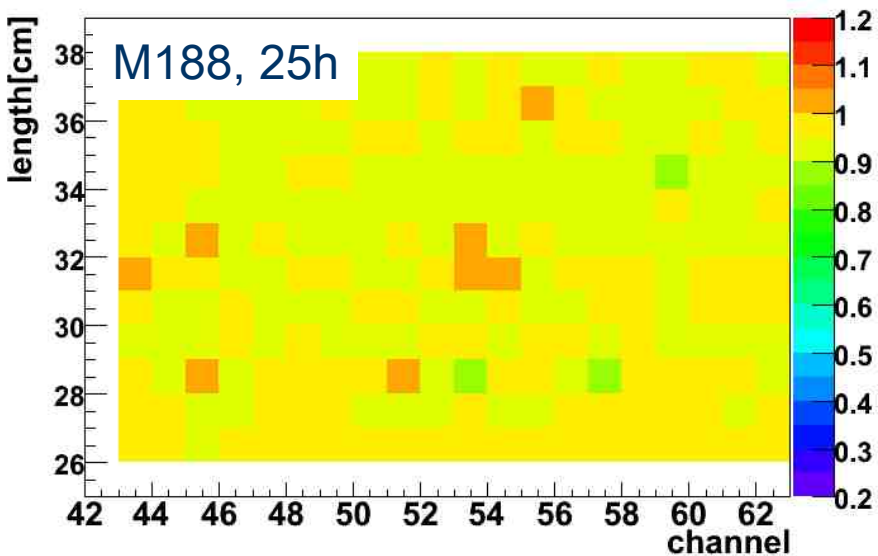
M017: Scan 1, 26h



M017: Scan 2, 47h



M188: Scan 2, 25h



M188: Scan 3, 47h

