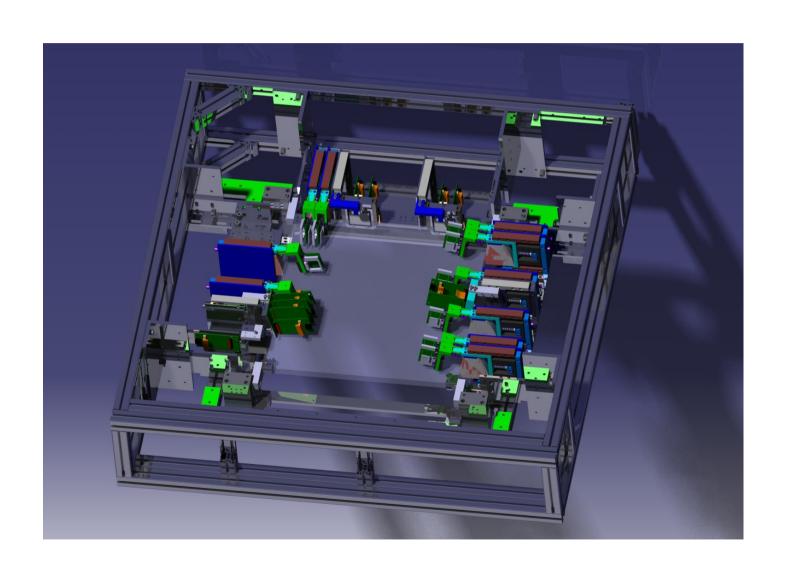
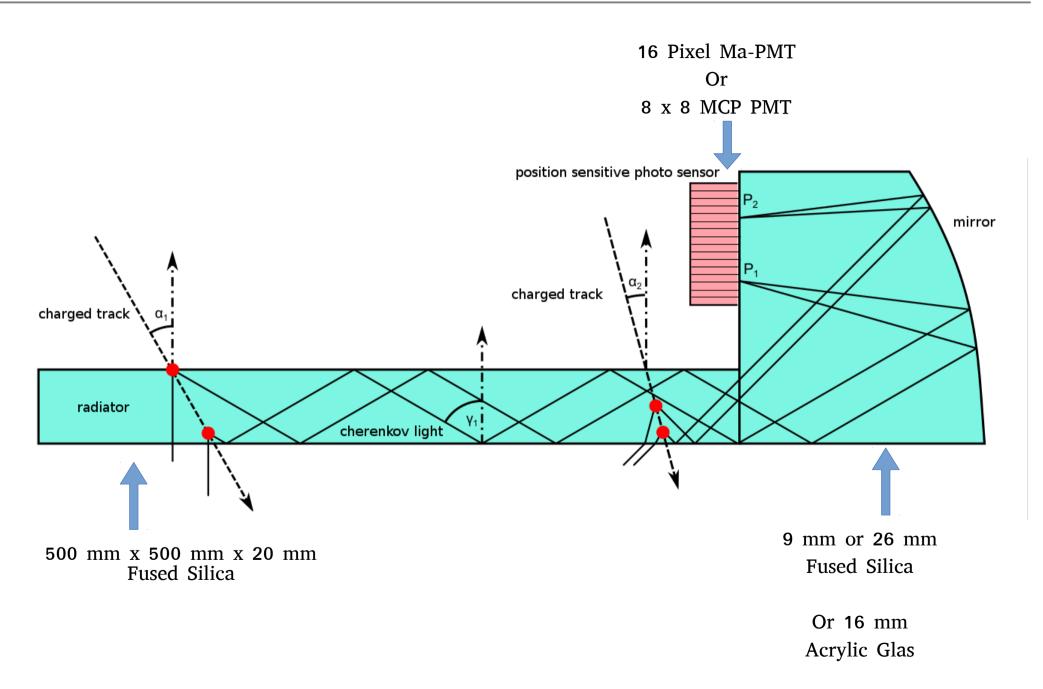
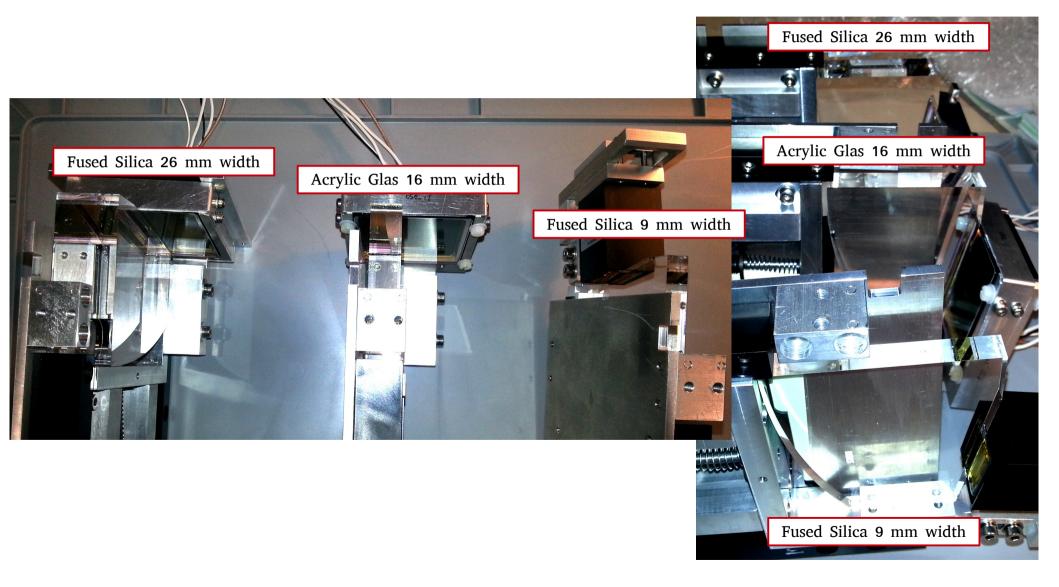
The next DISC-DIRC Prototype



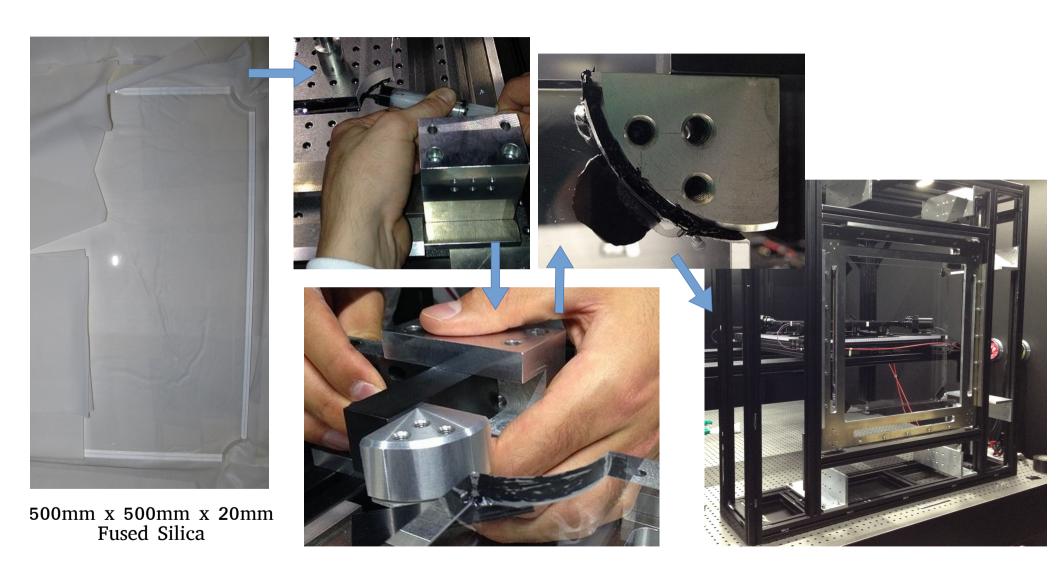
Working Principle



Focusing Light Guides

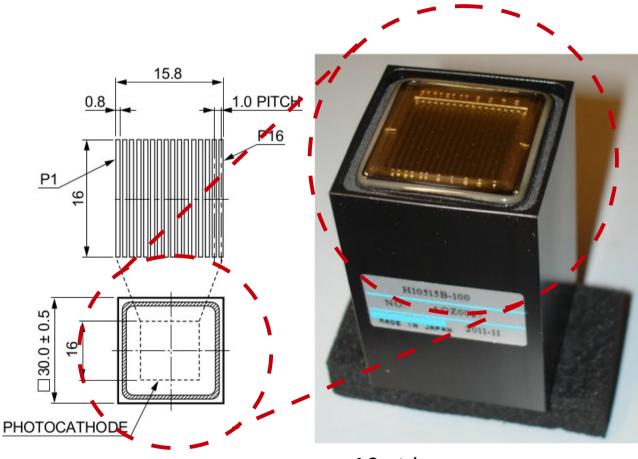


Radiator Mounting

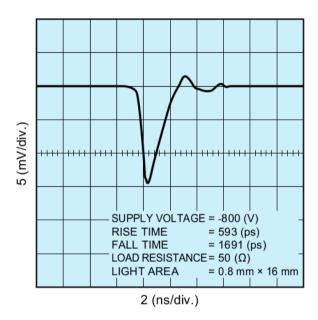


Ma-PMTs

A total 22 of these Sensors were used



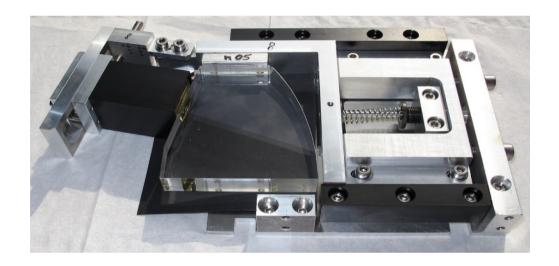
16 stripes

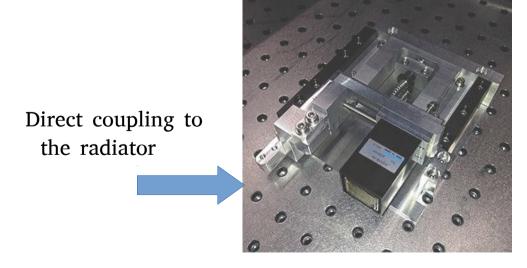


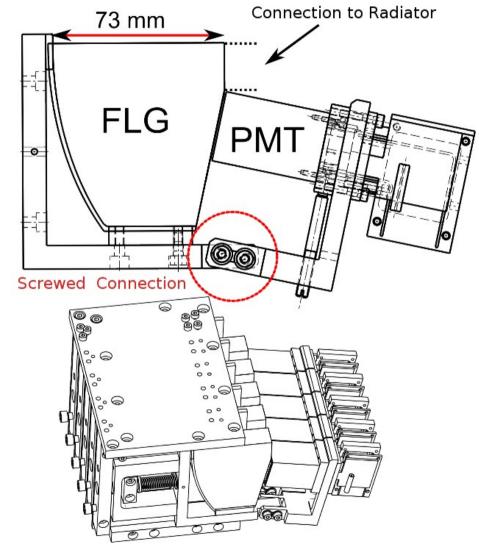
They were

- 1) Directly coupled to the radiator
- 2) Attached to a FLG out of acrylic glass
- 3) Attached to a FLG out of fused silica

Ma-PMTs



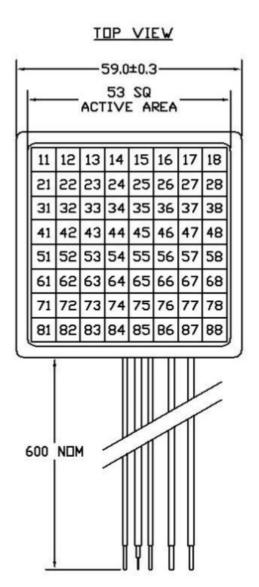




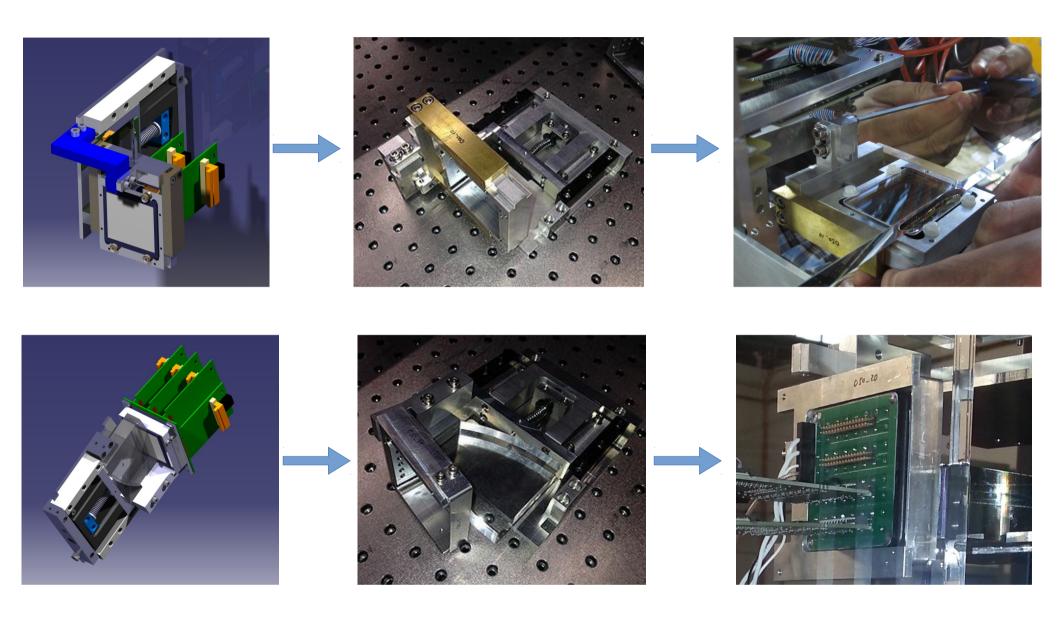
8x8 Planacon MPC-PMT

- 8 x 8 array, 5.9 / 6.5 mm (size / pitch)
- Active area 53 x 53 mm
- Directly coupled to the radiator
- Attached to a FLG out of acrylic glass
- Attached to a FLG out of fused silica

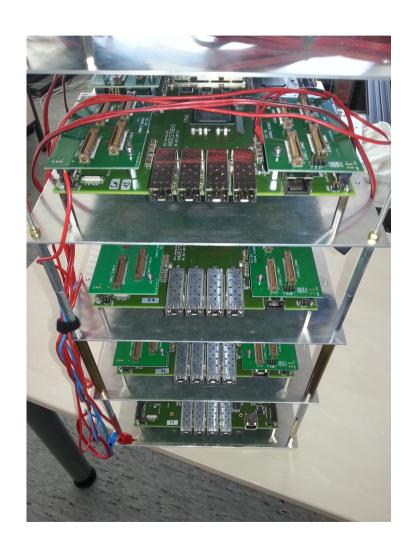


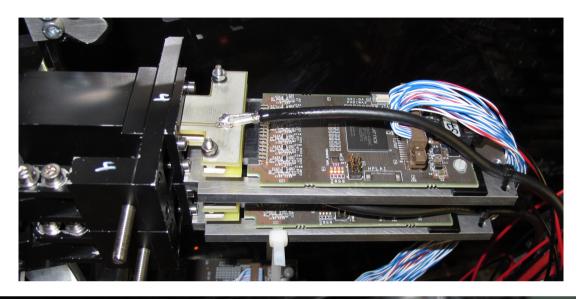


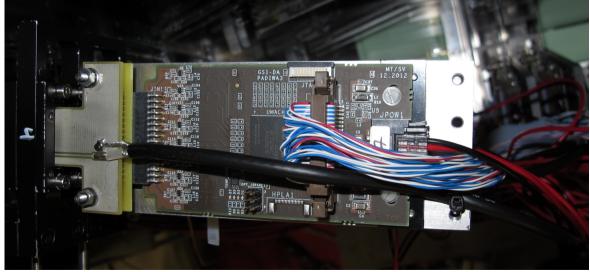
8x8 Planacon MPC-PMT



Readout

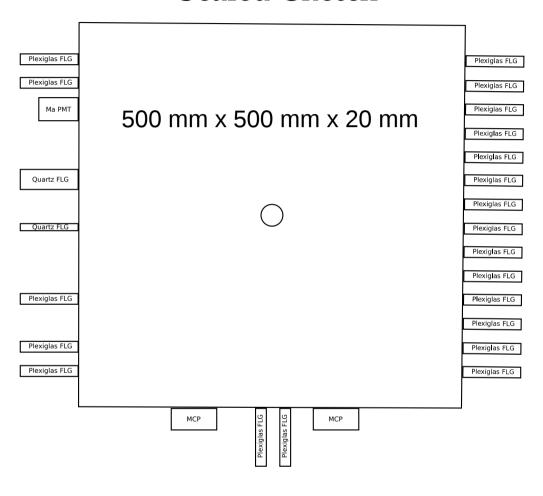


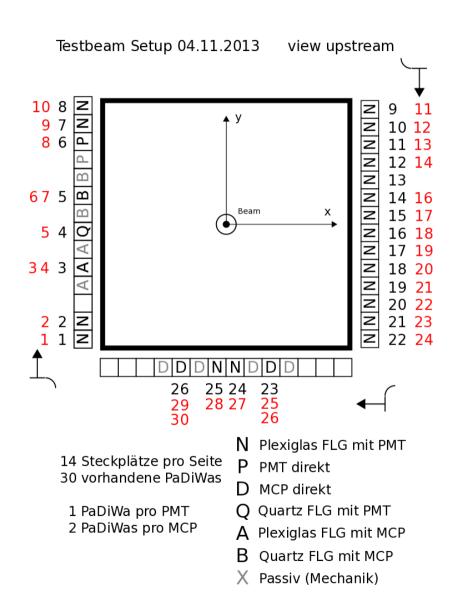




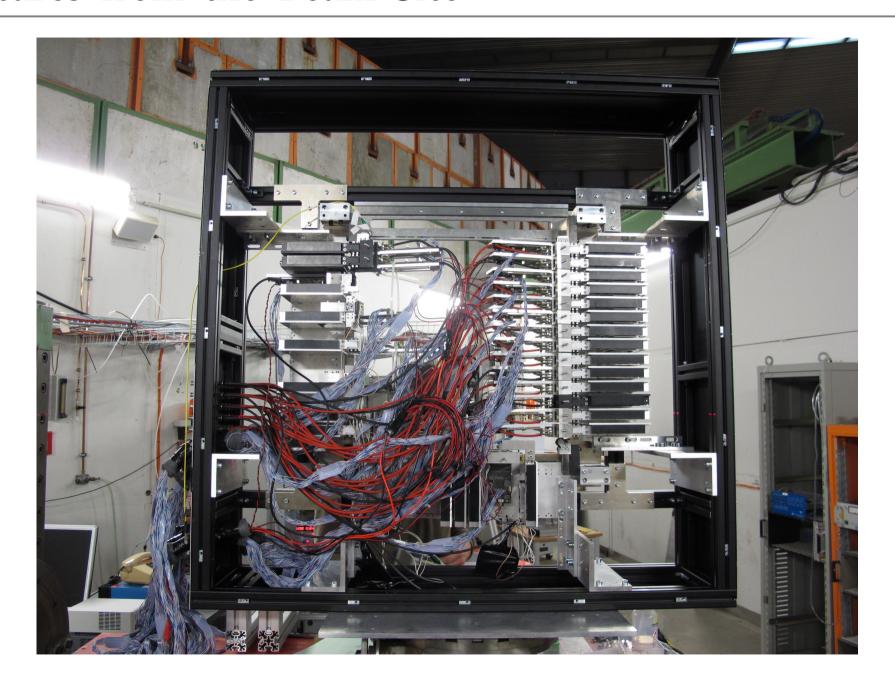
Overview

Scaled Sketch

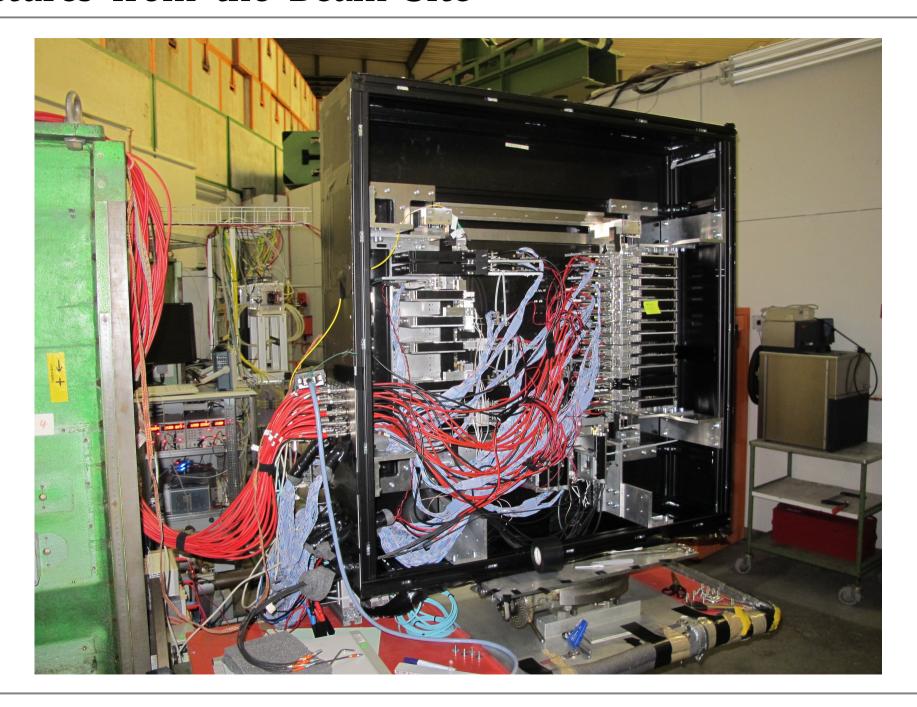




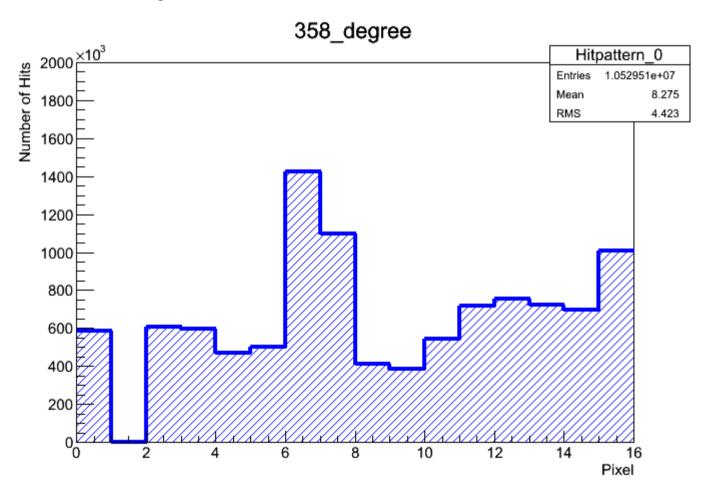
Pictures from the Beam Site



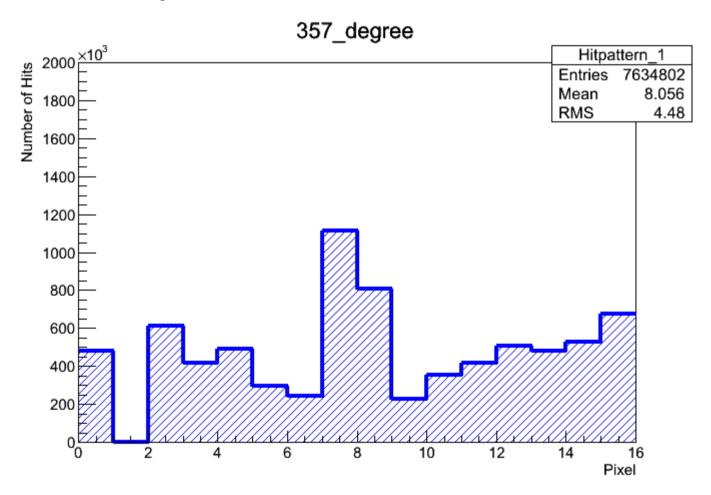
Pictures from the Beam Site



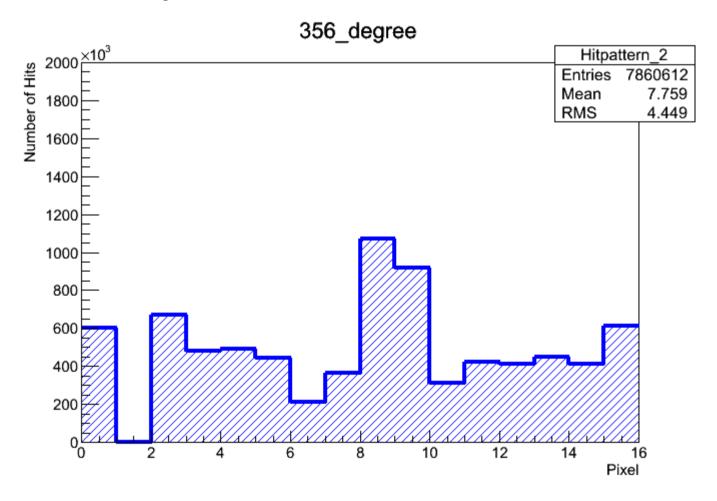
- Hit distribution of the thin Quartz FLG with a MaPMT
 - Spectra are still unnormalized
 - Timing information unused so far



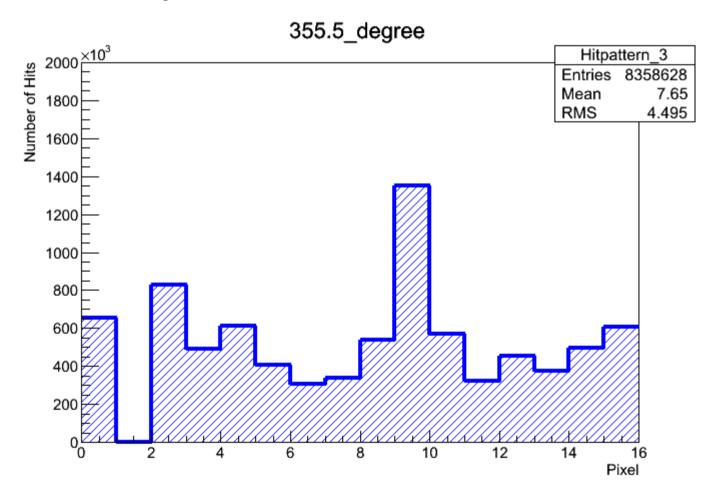
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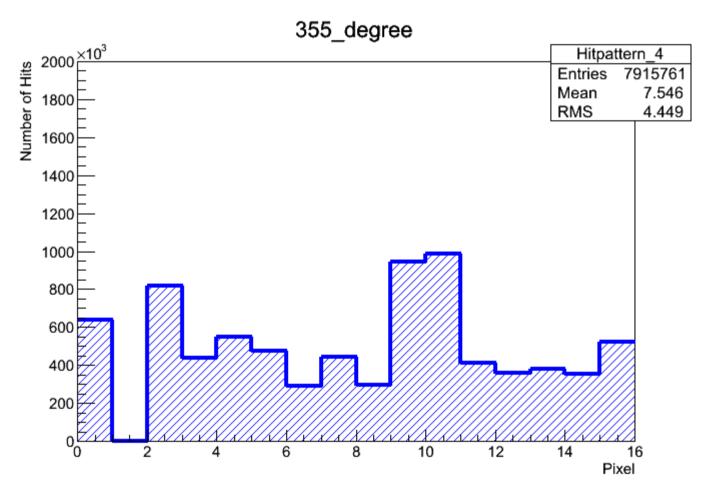
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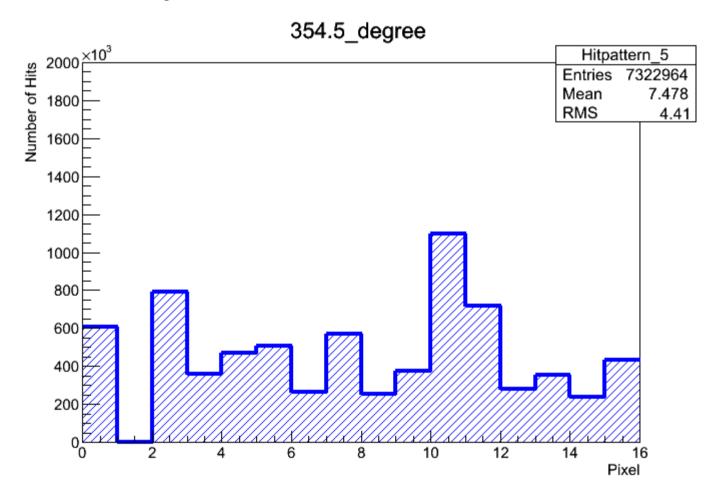
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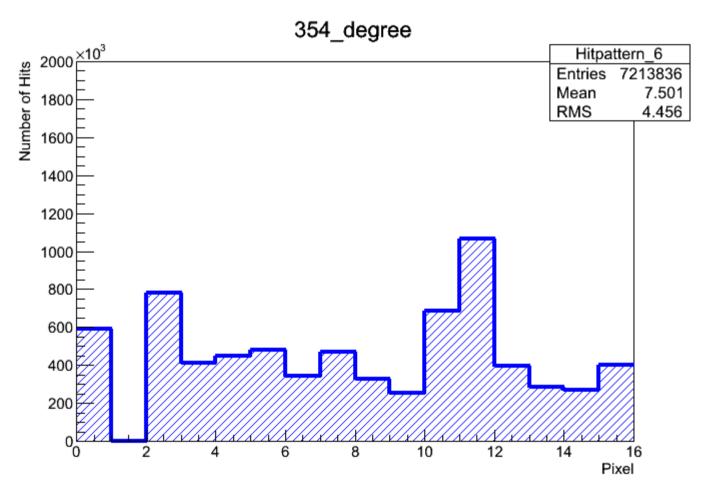
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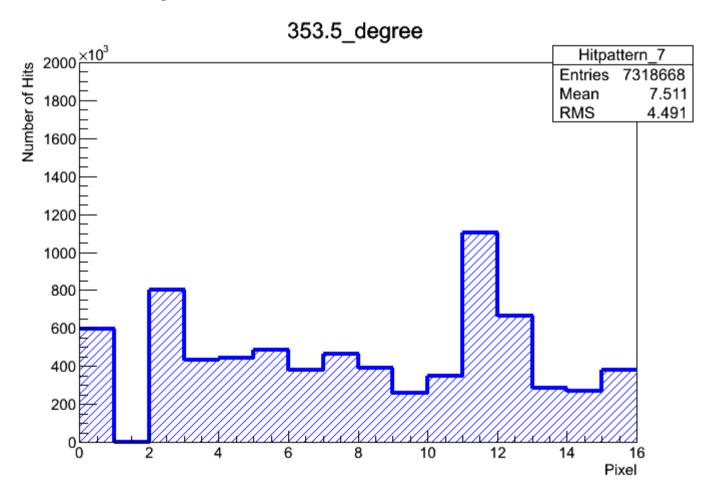
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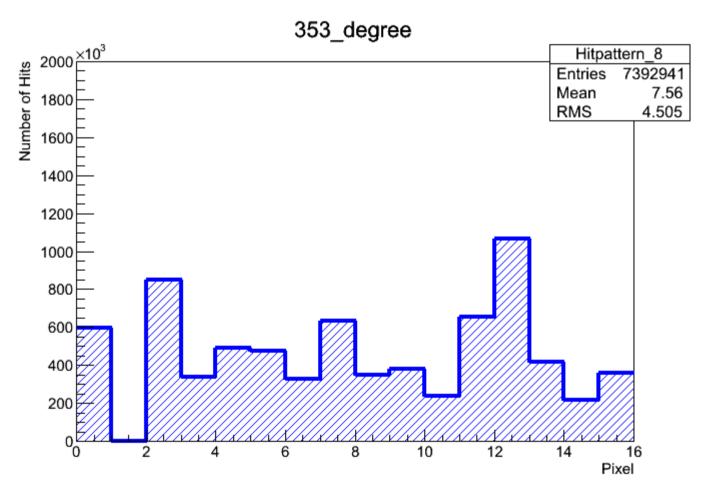
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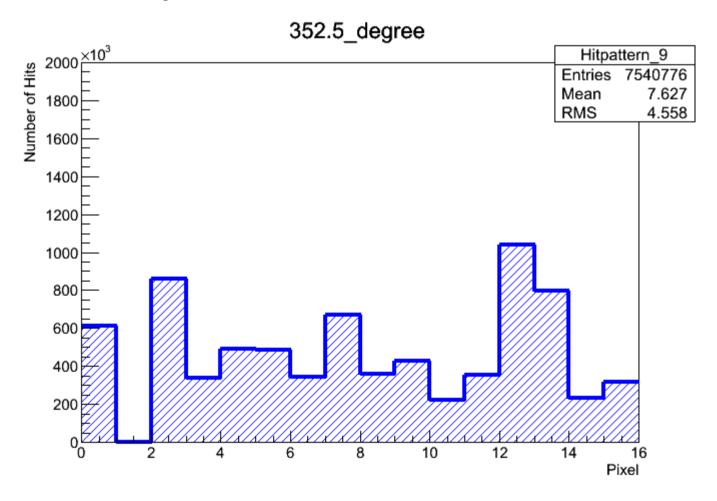
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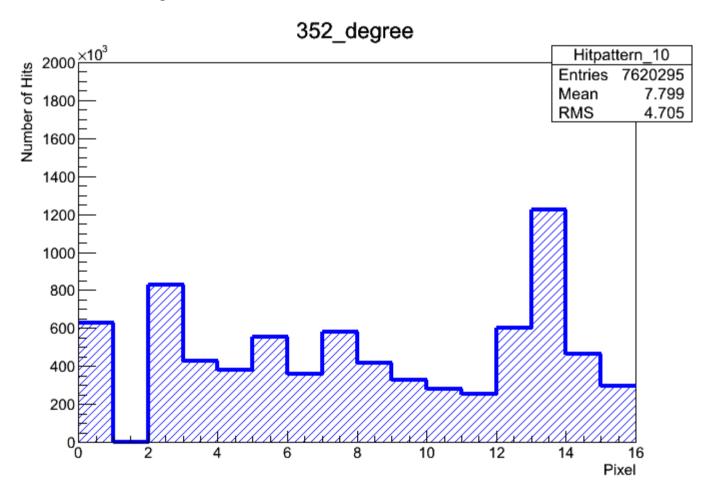
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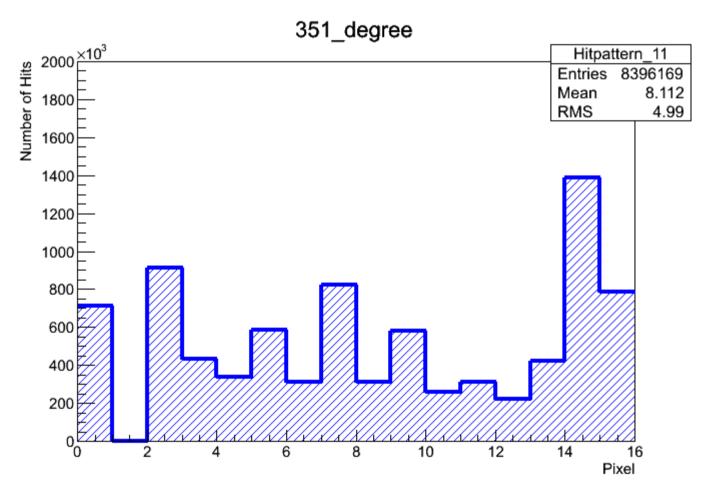
- Hit distribution of the thin Quartz FLG with a MaPMT
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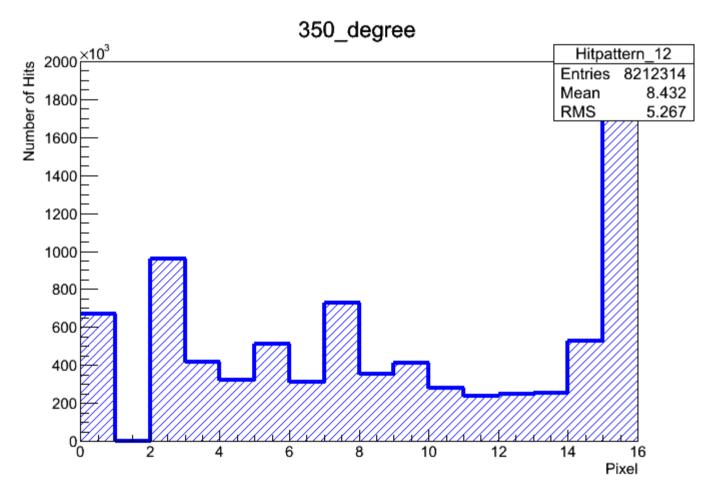
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- Hit distribution of the thin Quartz FLG with a MaPMT
 - Spectra are still unnormalized
 - Timing information unused so far



Outlook

- Timestamps in raw-data are puzzling
- Noise cuts have to be applied
- The data has do be analysed and compared to Monte Carlo

Thank you!