

Neutron Detector for
LAMPS-H
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Lab. Meeting
Korea University
Department of Physics

Waveform Data Analysis¹

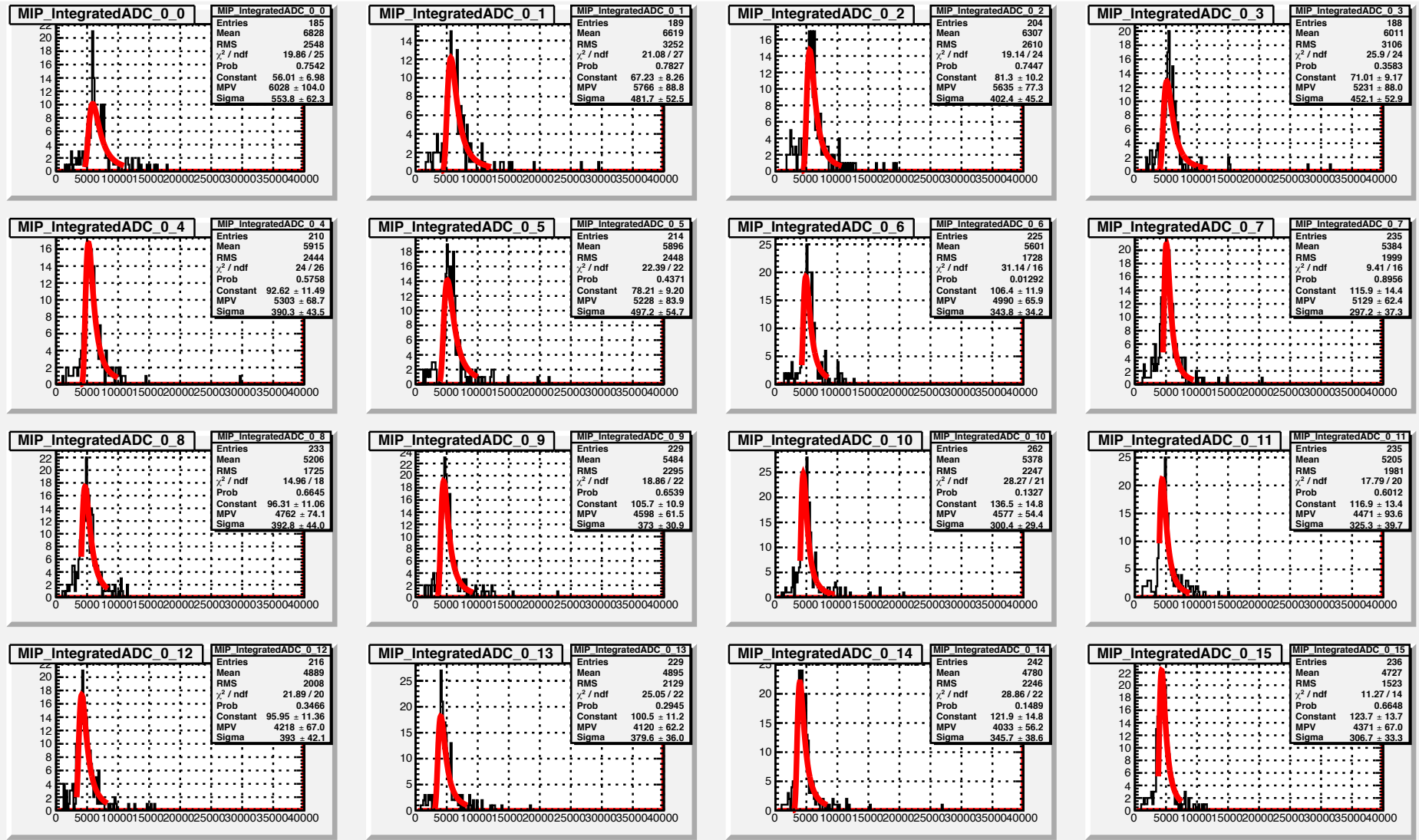


Fig.1: Integrated ADC for left side photomultiplier tube

Waveform Data Analysis²

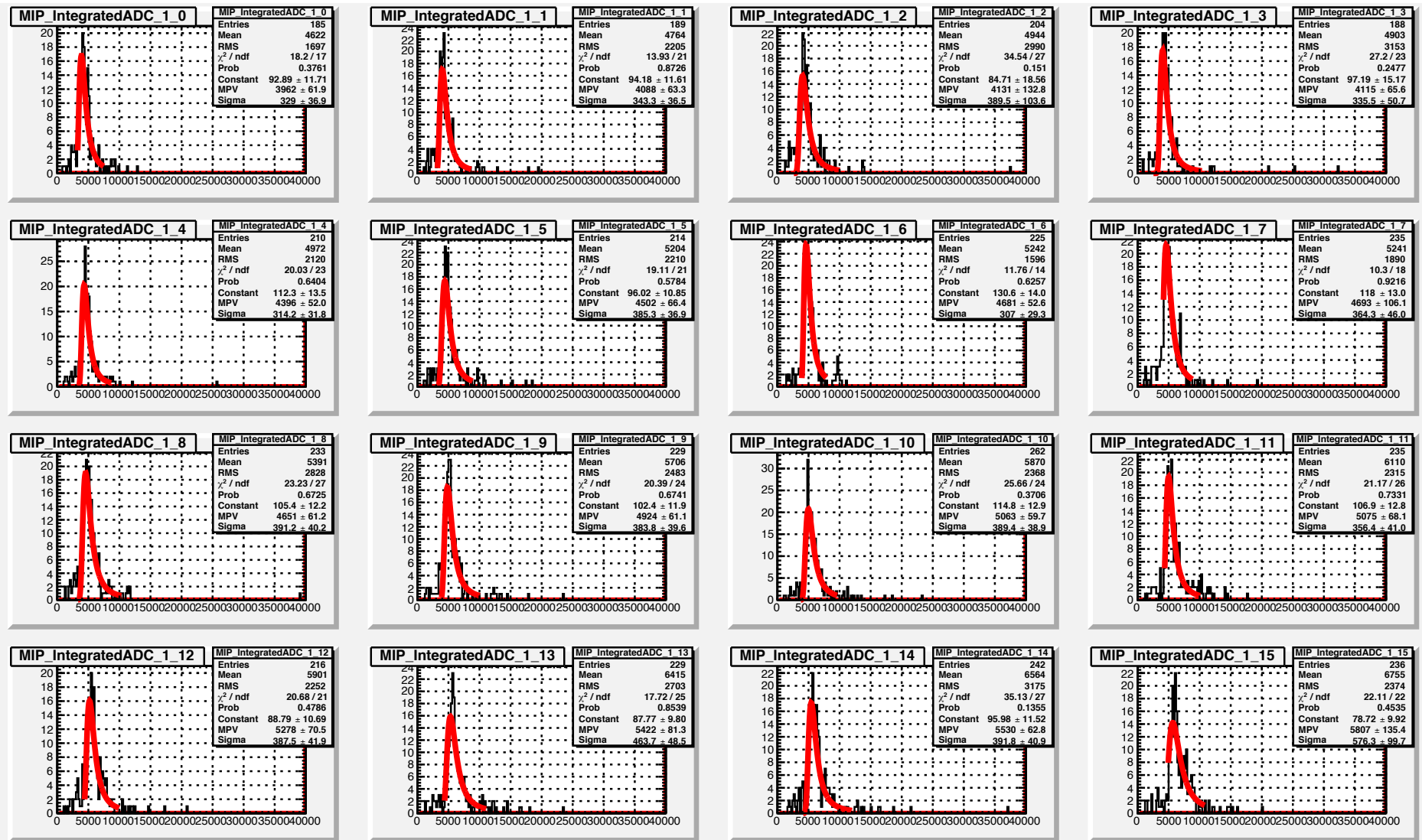


Fig.2: Integrated ADC for right side photomultiplier tube

Waveform Data Analysis³

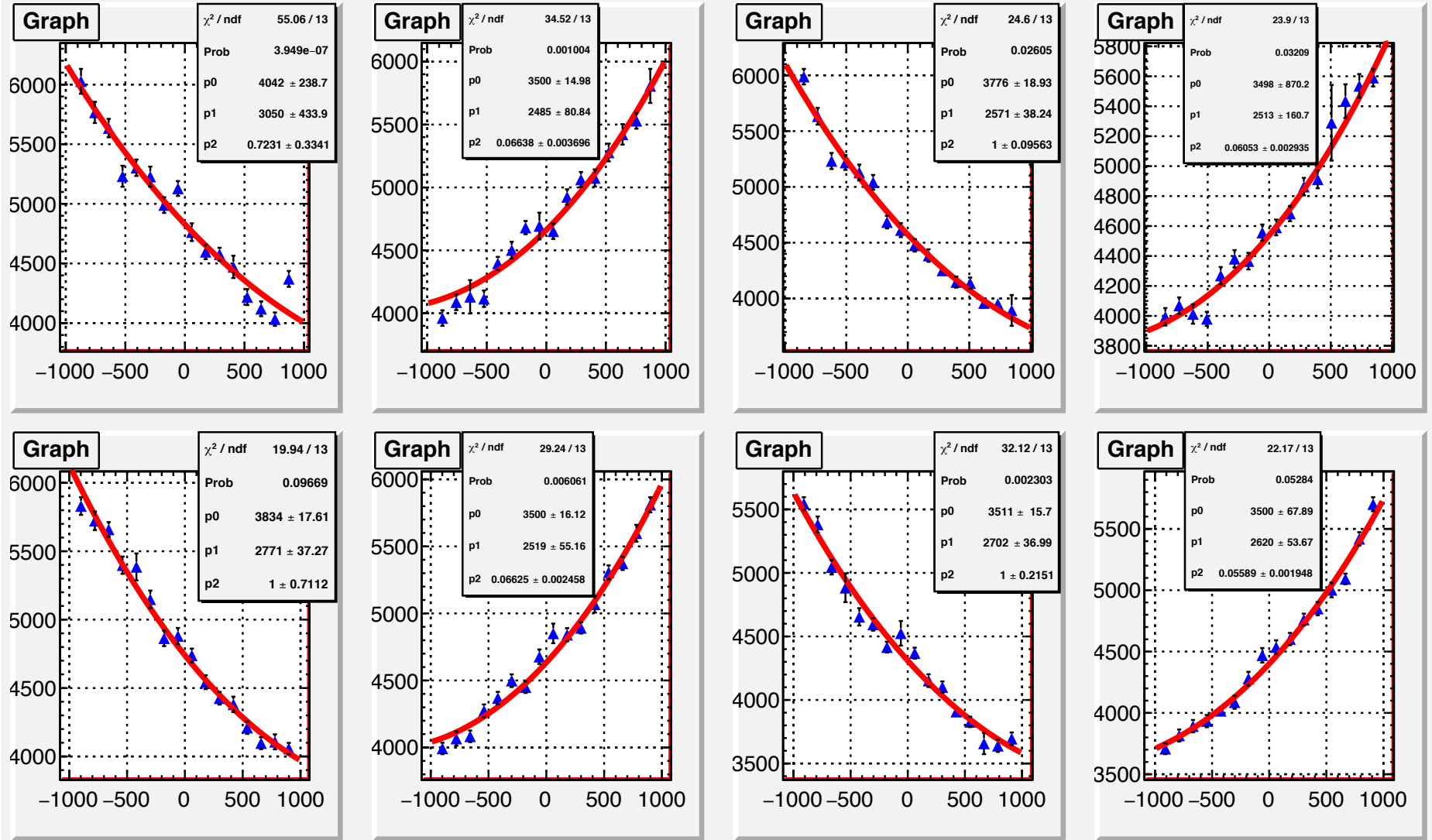


Fig.3: TAL for each of the 8 Modules

Waveform Data Analysis⁴

D1	Mod 0	[305 ± 43] cm
	Mod 1	[249 ± 8] cm
D2	Mod 2	[257 ± 4] cm
	Mod 3	[251 ± 16] cm
D3	Mod 4	[277 ± 4] cm
	Mod 5	[252 ± 6] cm
D4	Mod 6	[270 ± 4] cm
	Mod 7	[262 ± 5] cm

Tab.1: TAL range 249 ~ 305 cm from integrated ADC

Backup¹ [Left Module]

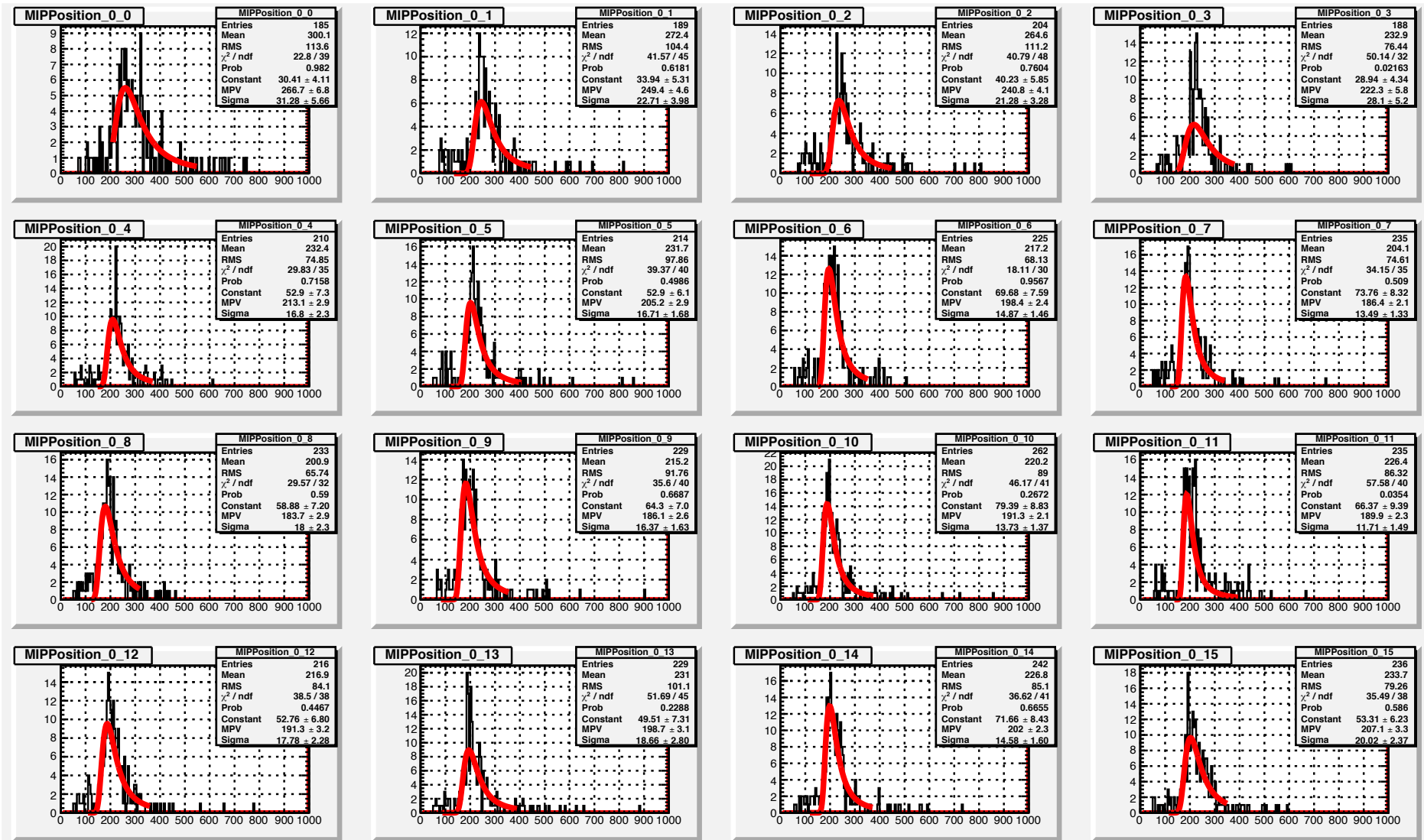


Fig.1: Pulse height for left side photomultiplier tube

Backup² [Right Module]

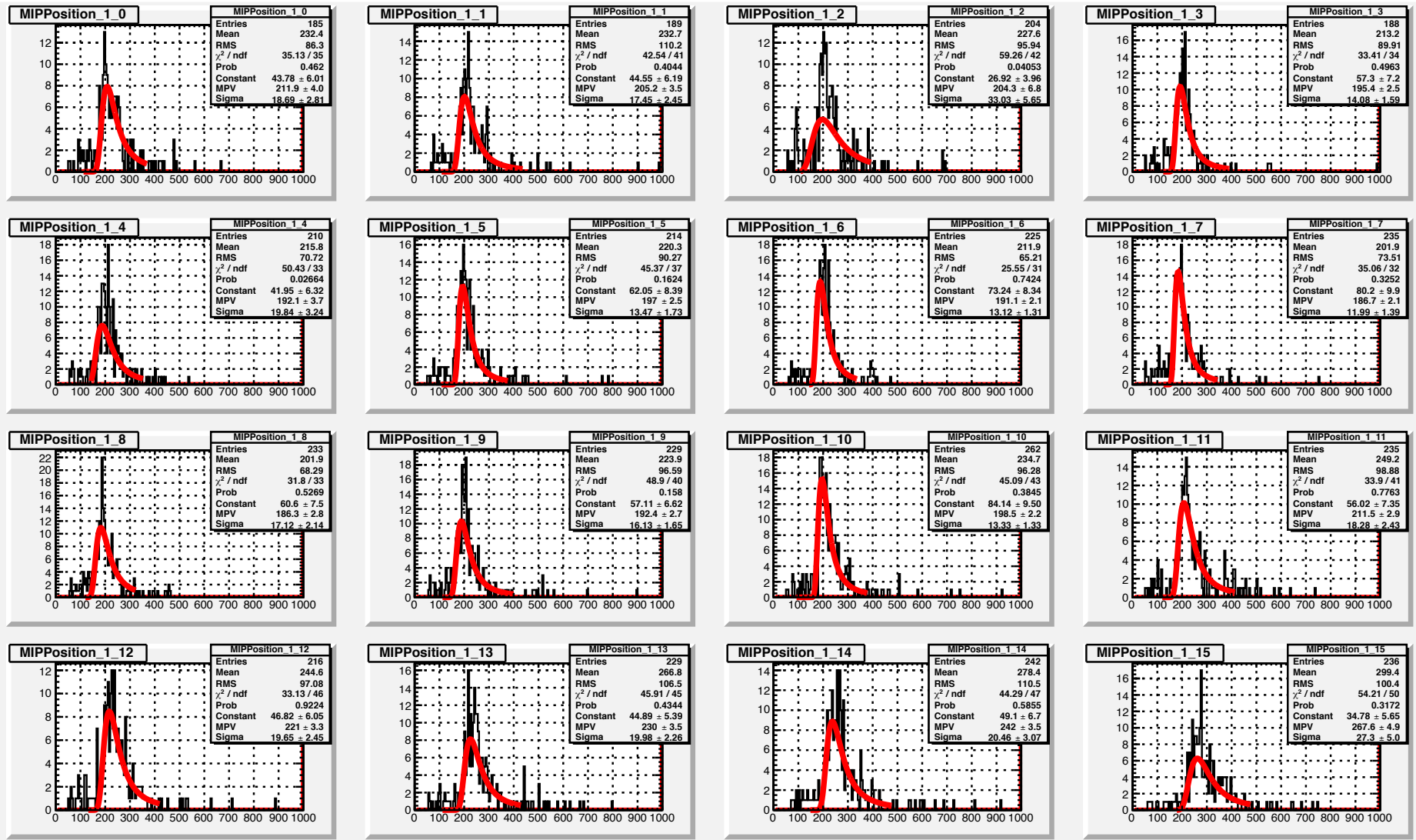


Fig.2: Pulse height for right side photomultiplier tube

Backup³ [Pulse Height TAL]

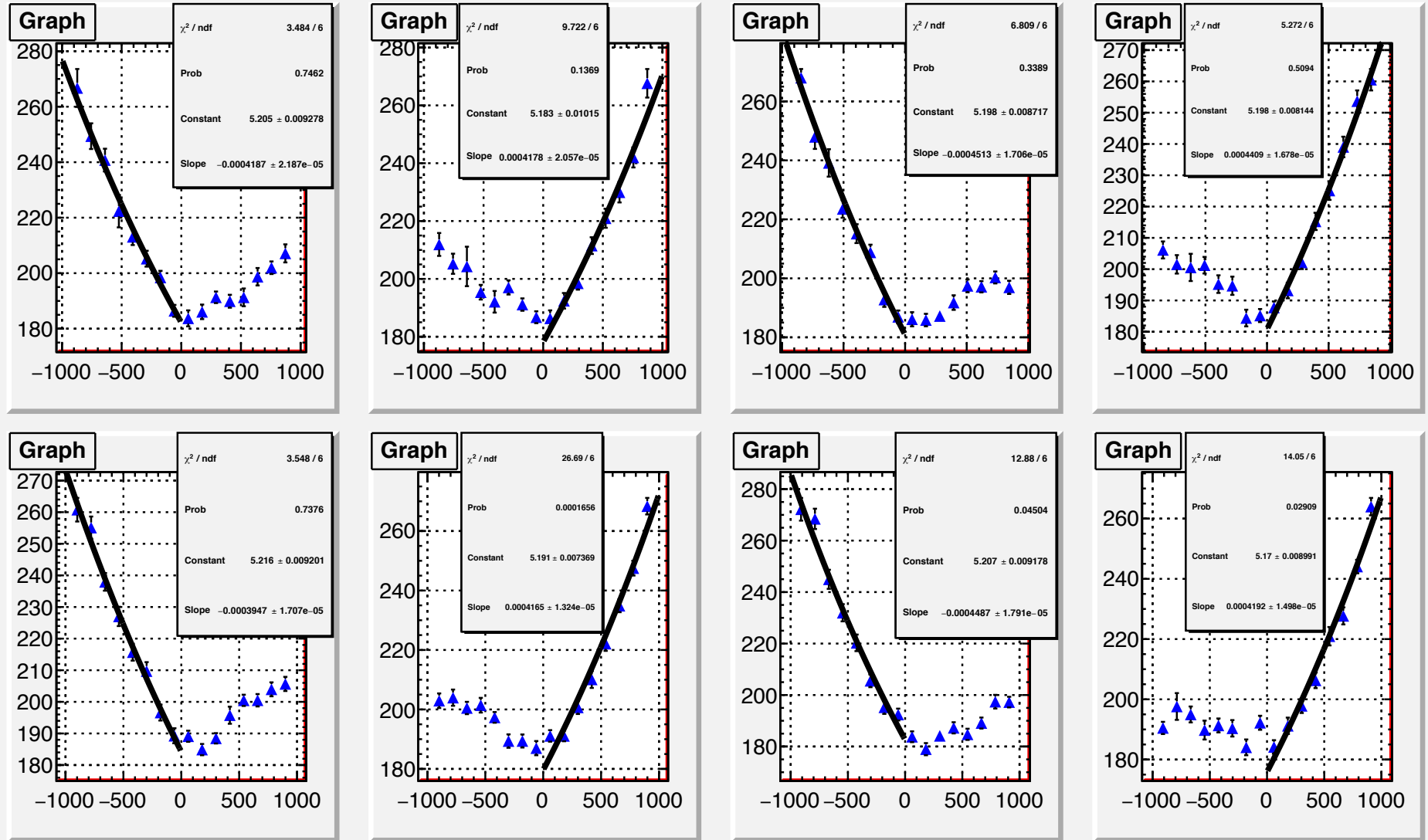


Fig.3: TAL for each module = slope⁻¹

Backup⁴ [Pulse Height TAL]

D1	Mod 0	239 cm
	Mod 1	239 cm
D2	Mod 2	222 cm
	Mod 3	227 cm
D3	Mod 4	253 cm
	Mod 5	240 cm
D4	Mod 6	223 cm
	Mod 7	239 cm

Tab.2: TAL value = slope⁻¹ \approx 222 ~ 253 cm for pulse height