

► PMT – Single Photo Electron response

PM_GAIN	4,50E+06	
SPE_length	5,5 ns	
SPE_Imax*	26 uA	
SPE_charge	0,7 pC	
SPE_in_V*	1,61 mV	

* Due to FE
Filtering Effect

*Zin = 124
(1/2 Match Loss)

► DAQ Facts

BANDWIDTH	10 MHz
ADC Dynamic Range	2 V
ADC_bits	12
ADC_LSB	0,49 mV
ADC_Gain	1,25
SPE_ADC	7,35 mV
SPE_LSB	15



FRONT END BASIC SPECS

SPE_LSB	15
SPE FE_out	5,88 mV
LSB_FE_out	0,392 mV
GAIN	226,5 Vout / lin

Noise(rms) should be kept under 1/2 LSB

Including R2 ($A_v \approx 4$)