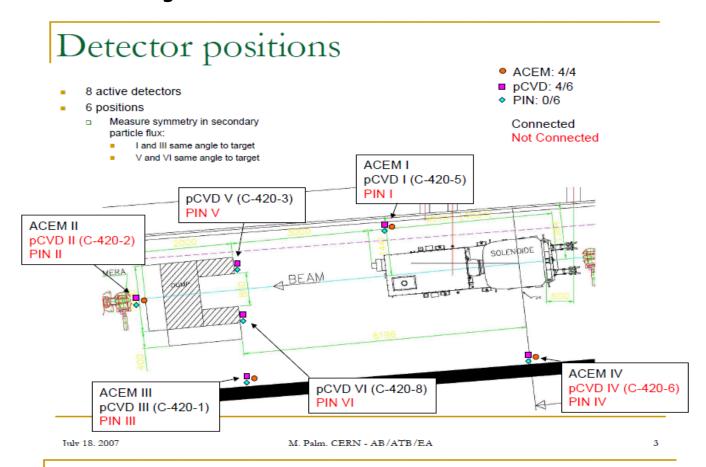
Particle Detector Waveforms for Shots 17006 and 117017

T. Tsang BNL (Dec. 17, 2009) There are a total of 6 diamond particle detectors positioned but only 4 are good (I, III, V, & VI), according to Marcus. Detector III (left 20°) is the one we've been using for comparison with scintillating fiber and BCT.

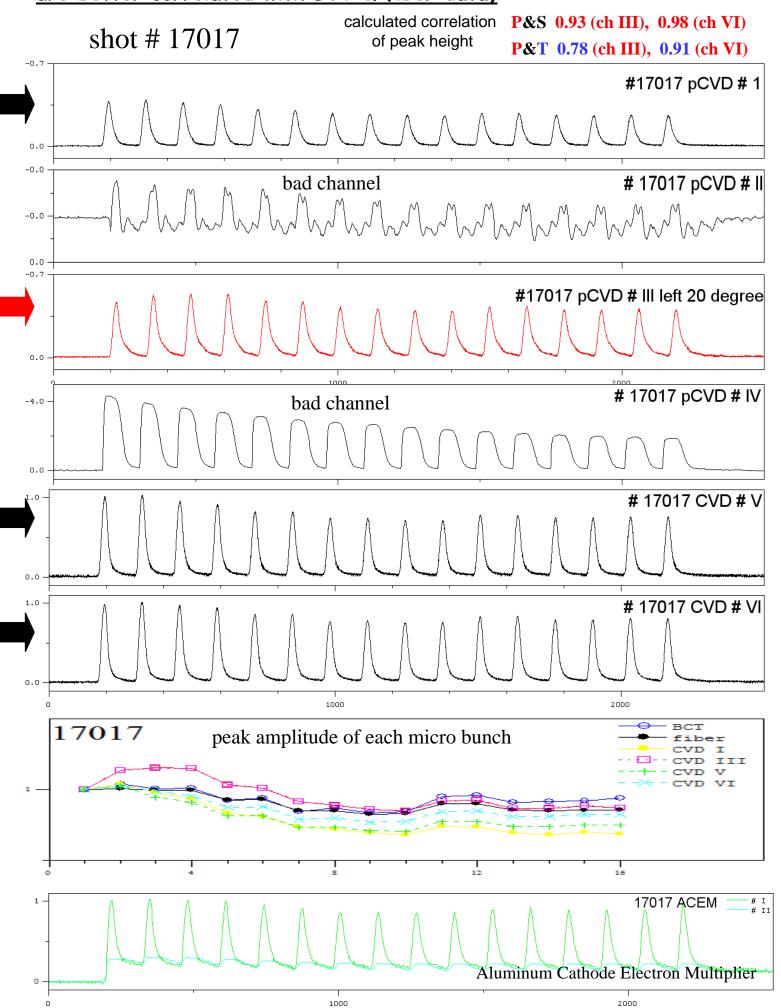


Present channel configuration

Detector	Osc. Channel	Sampling Speed [MS/s]	Power Supply CH	Voltage [V]	Attenuation [dB] (no Hg)
pCVD I	LeCroy, CH1	2500	PS3, CH1	500	20
pCVD II	ı	-	-	- I	-
pCVD III	LeCroy, CH2	2500	PS3, CH2	500	20
pCVD IV	-	-	-	-	-
pCVD V	LeCroy, CH3	2500	PS3, CH3	500	30
pCVD VI	LeCroy, CH4	2500	PS3, CH4	500	30
ACEM I	TEK, CH1	500	PS2, CH1	?	0
ACEM II	TEK, CH2	500	PS2, CH2	?	0
ACEM III	TEK, CH3(*)	500	PS2, CH3	?	0
ACEM IV	TEK, CH4	500	PS2, CH4	?	0
PIN <i></i>	-	-	-	60	-

 (*) Malfunctioning of the Tektronix restricts the voltage resolution on this channel to be at least 300 mV/div.

Other diamond particle detectors (e.g. channel VI) are better correlated with BCT & fiber data,



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