

Labelling Scheme of the PVDIS DAQ

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	SS SUM8 10 ns	PP Split 10 ns	Split SUM8 4 ns	SUM8-TS	SUM8-Discr 16 ns	TS-Discr 16 ns	DHN-DHW Or DMN-DMW 4 ns	Discr-ECL AND-ECL OR-ECL 16 ns	Discr-AND 4 ns	DLN-DLW 4 ns	DLW-OR 4 ns	AND-OR 4 ns	OR-OR 4 ns
Group 1	SS1,2	PS1	PS1	SS12TS1 (8 ns) PS1-TS1 (4 ns) * EDTM1	PS1-DMN	TS1-DHN TS1-DLN	TS1DHNW PS1DMNW	TS1H PS1H E1NA E1WA P1WA P2WA	TS1DHNA PS1DMNA TS1DHWA PS1DMWA	TS1DLNW	DL1-OR	E1NB E1WB	P1WB P2WB
	S01-1	PSLSP1	P1L										
	S01-2	PSLSP2	P2L										
	S01-3	PSLSP3	P3AL										
	S01-4	PSLSP4	P4AL										
Group 2	SS3,4	PS2	PS2	SS34TS2 (8 ns) PS2-TS2 (4 ns) EDTM2	PS2-DMN	TS2-DHN TS2-DLN	TS2DHNW PS2DMNW	TS2H PS2H E2NA E2WA P1NA P2NA	TS2DHNA PS2DMNA TS2DHWA PS2DMWA	TS2DLNW	DL2-OR	E2NB E2WB	P1NB P2NB
	S03-1		P3BL										
	S03-2		P4BL										
	S03-3	PSLSP5	P5L										
	S03-4	SPLSP6	P6AL										
	S04-1		P3BR										
	S04-2		P4BR										
	S04-3	PSRSP5	P5R										
	S04-4	PSRSP6	P6AR										

DHN: Discriminator with High threshold and Narrow width

DHW: Discriminator with High threshold and Wide width

DLN: Discriminator with Low threshold and Narrow width

DLW: Discriminator with Low threshold and Wide width

DMN: Discriminator with Medium threshold and narrow width

AND-OR means 758 (AND) to 757 (OR)

SS: Shower Split: Splitter Discr: Discriminator

ECL: NIM to ECL module PP: Patch Panel

Final Signal Labelling: EN (electron narrow)

PW (pion wide)

PN (pion narrow)

EW (electron wide)

* EDTM comes from pulser (not from SUM8)

All "-"s in the title of the table represent "to".

Total NIM-ECL channels needed = 8*6 + 4 = 52 for each spectrometer.

While typing labels, hit space bar for all possible spaces; otherwise the labels won't print out correctly.

SUM8-Discr, TS-Discr and anywhere to ECL must use 16 ns cable; total 16 ns cables required = 72 + spare

Cables needed per group: 4 ns type: 22, 16 ns type: 9, 16 ns BNC to LEMO type: 16.

Cables needed as a whole for one hrs: 4ns type: 176 (exist), 16 ns type: 72 (exist), 16 ns BNC to LEMO: 128 (only 48 exist).

TS: Total Shower analog sum in 428F (or PS/740).

	SS SUM8	PP Split	Split SUM8	SUM8-TS	SUM8-Discr	TS-Discr	DHN-DHW Or DMN-DMW	Discr-ECL AND-ECL OR-ECL	Discr-AND	DLN-DLW	DLW-OR	AND-OR	OR-OR
	10 ns	10 ns	4 ns		16 ns	16 ns	4 ns	16 ns	4 ns	4 ns	4 ns	4 ns	4 ns
Group 3	SS5,6	PS3	PS3	SS56TS3 (8 ns)	PS3-DMN	TS3-DHN	TS3DHNW	TS3H	TS3DHNA PS3DMNA	TS3DLNW	DL3-OR	E3NB	P3WB
	S05-1	PSLSP7 PSLSP8 PSLSP9	P6BL			PS3-TS3 (4 ns)	TS3-DLN	PS3DMNW				PS3H	E3NA
	S05-2		P7L	EDTM3					E3WA		TS3DHWA PS3DMWA		
	S05-3		P8L										
S05-4	P9AL					P4WA							
Group 4	SS7,8	PS4	PS4	SS78TS4 (8 ns)	PS4-DMN	TS4-DHN	TS4DHNW	TS4H	TS4DHNA PS4DMNA	TS4DLNW	DL4-OR	E4NB	P3NB
	S07-1	PSLSP10 PSLSP11 PSLSP12	P9BL			PS4-TS4 (4 ns)	TS4-DLN	PS4DMNW				PS4H	E4NA
	S07-2		P10L	EDTM4					E4WA		TS4DHWA PS4DMWA		
	S07-3		P11L										
S07-4	P12AL												
Group 5	SS9,10	PS5	PS5	SS910TS5 (8 ns)	PS5-DMN	TS5-DHN	TS5DHNW	TS5H	TS5DHNA PS5DMNA	TS5DLNW	DL5-OR	E5NB	P5WB
	S09-1	PSLSP13 PSLSP14 PSLSP15	P12BL			PS5-TS5 (4 ns)	TS5-DLN	PS5DMNW				PS5H	E5NA
	S09-2		P13L	EDTM5					E5WA		TS5DHWA PS5DMWA		
	S09-3		P14L										
S09-4	P15AL												
Group 5	S10-1	PSRSP13 PSRSP14 PSRSP15	P12BR					P5WA					
	S10-2		P13R										
	S10-3		P14R										
	S10-4	P15AR											

	SS SUM8	PP Split	Split SUM8	SUM8-TS	SUM8-Discr	TS-Discr	DHN-DHW Or DMN-DMW	Discr-ECL AND-ECL OR-ECL	Discr-AND	DLN-DLW	DLW-OR	AND-OR	OR-OR					
	10 ns	10 ns	4 ns		16 ns	16 ns	4 ns	16 ns	4 ns	4 ns	4 ns	4 ns	4 ns					
Group 6	SS11,12	PS6	PS6	TS1112TS6 (8 ns) PS6-TS6 (4 ns) EDTM6	PS6-DMN	TS6-DHN	TS6DHNW	TS6H PS6H	TS6DHNA PS6DMNA TS6DHWA PS6DMWA	TS6DLNW	DL6-OR	E6NB E6WB	P5NB P6NB					
	S11-1		P15BL			PS7-TS7 (4 ns) EDTM7	PS7-DMN	TS6-DLN						PS6DMNW	E6NA E6WA			
	S11-2	PSLSP16	P16L					PS8-TS8 (4 ns) EDTM8						PS8-DMN			P5NA P6NA	
	S11-3	PSLSP17	P17L															
	S11-4	PSLSP18	P18AL															
S12-1		P15BR																
S12-2	PSRSP16	P16R																
S12-3	PSRSP17	P17R																
S12-4	PSRSP18	P18AR																
Group 7	SS13,14	PS7	PS7	SS1314TS7 (8 ns) PS7-TS7 (4 ns) EDTM7	PS7-DMN			TS7H PS7H E7NA E7WA	TS7DHNA PS7DMNA TS7DHWA PS7DMWA	TS7DLNW	DL7-OR	E7NB E7WB	P7WB P8WB					
	S13-1		P18BL			PS8-TS8 (4 ns) EDTM8	PS8-DMN	TS7-DHN						TS7DHNW				
	S13-2	PSLSP19	P19L															
	S13-3	PSLSP20	P20L															
	S13-4	PSLSP21	P21AL															
S14-1		P18BR																
S14-2	PSRSP19	P19R																
S14-3	PSRSP20	P20R																
S14-4	PSRSP21	P21AR																
Group 8	SS15,16	PS8	PS8	SS1516TS8 (8 ns) PS8-TS8 (4 ns) EDTM8	PS8-DMN			TS8H PS8H E8NA E8WA	TS8DHNA PS8DMNA TS8DHWA PS8DMWA	TS8DLNW	DL8-OR	E8NB E8WB	P7NB P8NB					
	S15-1		P21BL			PS9-TS9 (4 ns) EDTM9	PS9-DMN	TS8-DHN						TS8DHNW				
	S15-2	PSLSP22	P22L															
	S15-3	PSLSP23	P23L															
	S15-4	PSLSP24	P24L															
S16-1		P21BR																
S16-2	PSRSP22	P22R																
S16-3	PSRSP23	P23R																
S16-4	PSRSP24	P24R																

Cabling Scheme for the Veto-part

Cherenkov to 755	Scint to 755	755 to GC & SC	755 to (notC)S	GC & SC to 755	(notC)S to 757	757 to 758	
						AND	OR
GC-755	SC-755	755-CS	755-NOTCS	CS-757	NOTCS-757	757-AND1 757-AND2 757-AND3 757-AND4	757-OR1 757-OR2 757-OR3 757-OR4

GC: Gas Cherenkov

SC: Scintillator Counter

CS: GC & SC

(notC)S: GC & SC

Cabling Scheme for the Tagger

Electron-Tagger AND	Pulser-AND	Tagger AND-Scaler	Tagger AND-TDC
E1NA-A E1WA-A E2NA-A E2WA-A E3NA-A E3WA-A E4NA-A E4WA-A E5NA-A E5WA-A E6NA-A E6WA-A E7NA-A E7WA-A E8NA-A E8WA-A	PULSER (Make 16 copies)	TAN1-SCAL TAW1-SCAL TAN2-SCAL TAW2-SCAL TAN3-SCAL TAW3-SCAL TAN4-SCAL TAW4-SCAL TAN5-SCAL TAW5-SCAL TAN6-SCAL TAW6-SCAL TAN7-SCAL TAW7-SCAL TAN8-SCAL TAW8-SCAL	TAN1-TDC TAW1-TDC TAN2-TDC TAW2-TDC TAN3-TDC TAW3-TDC TAN4-TDC TAW4-TDC TAN5-TDC TAW5-TDC TAN6-TDC TAW6-TDC TAN7-TDC TAW7-TDC TAN8-TDC TAW8-TDC

NIM CRATE 1		NIM CRATE 2		NIM CRATE 3		NIM CRATE 4		VME CRATE	
NIM-ECL	FAN		FAN		FAN		FAN		CPU
NIM-ECL				757 Spare					TI
NIM-ECL				LOGIC (757)		740 Spare		FADC	
NIM-ECL				LOGIC (757)		Level Translator Spare		FADC	
NIM-ECL				LOGIC (755)				FADC	
NIM-ECL				LOGIC (757)				SCALER	
				LEVEL TANSL		Z Discr (706)		TH-M	SCALER
		740 Spare		LOGIC (758)		W Discr (706)		TH-M	SCALER
		740 Spare		LOGIC (758)		Z Discr (706)		TH-H	TDC
		757 Spare		LOGIC (758)		W Discr (706)		TH-H	
	755 Spare	LOGIC (758)	Z Discr (706)	TH-L					
	758 Spare	LOGIC (758)	W Discr (706)	TH-L					

NIM CRATE 5		NIM CRATE 6	
	FAN		FAN
		SUM8	
		SUM8	
		SUM8	
		SUM8	
		TS (740)	
		TS (740)	
		SUM8	
	SUM8		
	SUM8		
SUM8 Spare			