

CCAL bypassed: similar to Hamamatsu, slightly increased voltages on 1st dynodes

Modified divider:

Increase voltages more on first dynodes (voltages at 1 kV correspond to Hamamatsu voltages at 1.5 kV)

Two versions: (a) large divider current (b) current reduced to below 1 mA at 1 kV

Relative comparison of dividers, us an LED, HV set to 1 kV

	A peak	Divider current (mA)	
CCAL bypassed	1.6 V	0.4	Used with CCAL, 1 kV
Modified (bypassed)	0.5 V	0.48	
Modified with amp gain of 3 large current (Vlad's column 3)	2.33 2.35	1.4 1.4	A peak (bypass amp) = 0.8 V (about 2 times smaller amp compared with CCAL bypassed) Used with CCAL relatively linear response HV = 940 - 970 V
Modified with amp gain of 3 reduced current Vlad's column 4	2.6 2.7	1 1	A peak (bypass amp) = 0.8 V

