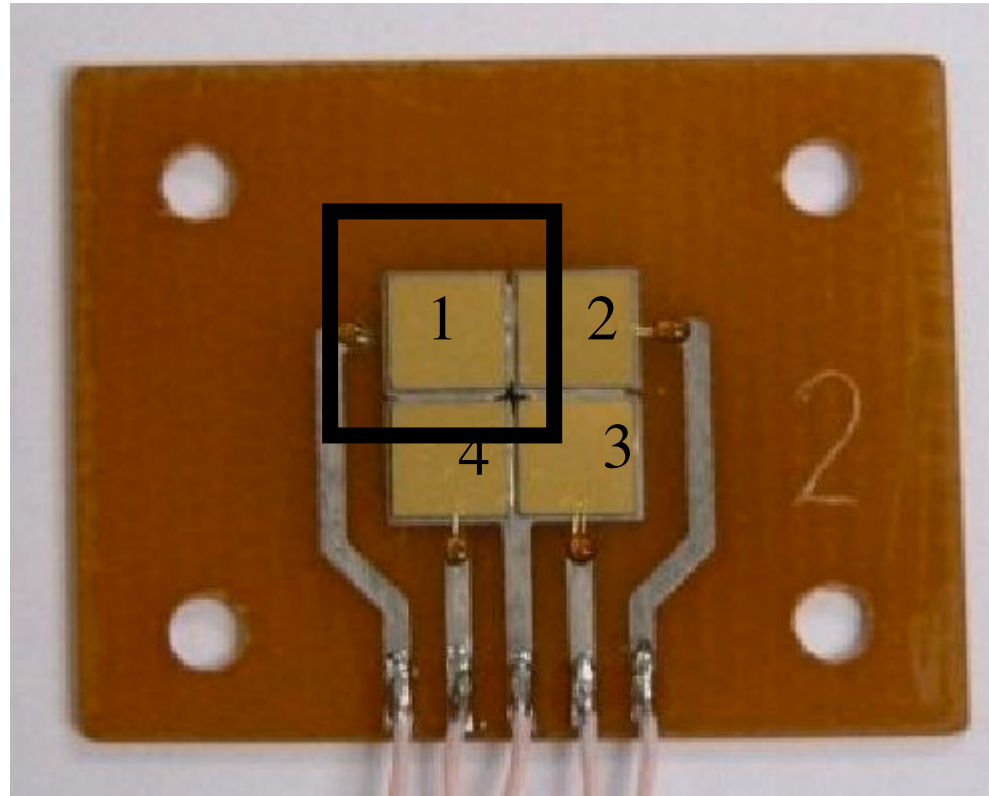


GaAs Samples

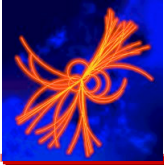
sample#	batch#	concentr	thickness	notes	pad#	irradiated							
b9	1	(1-1.5)*10 ¹⁷	171	starting	1	420 kgy	*			pads	top view		
		nonuniform	168	cce ~ 30%	2	no				1	2	board#	
		TI	169		3	no	*			4	3		
		I-V nonlinear	173		4	no				lead	out		
b11	1		170		1	no							
			169		2	no							12,8-13,1
			171		3	no				C gaas, pF	x, mm	y, mm	z, mm
			175		4	600 kgy				1,17E+01	4,50E-03	4,50E-03	2,00E-04
										1,81E+01	5,00E-03	5,00E-03	1,60E-04
b5	2	(5-6)*10 ¹⁷	186	starting	1	no	*						
		uniform?	190	cce ~ 40%	2	no							
		TI	190		3	no	damaged						
		I-V slightly nonlinear	190		4	820 kgy	*						
b7	2	the same as sector	195		1	no							
			191		2	470 kgy							
			190		3	no							
			197		4	no							
b2	3	(1-3)*10 ¹⁶	160	starting	1	1.15 Mgy	*						
		uniform		cce ~ 50%	2	no	*						
		Sn			3	no	damaged						
		I-V linear			4	no							
b31	3		160		1	no							
					2	no	*						
					3	no							
					4	1 Mgy	*						



Sample layout



5x5 mm pads, 9x9 mm copper beam collimator



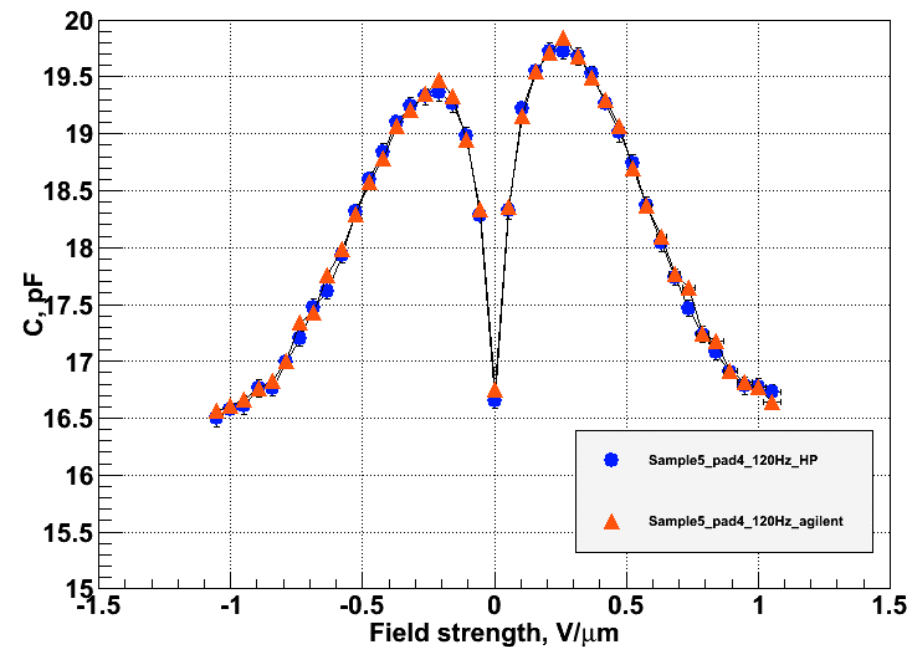
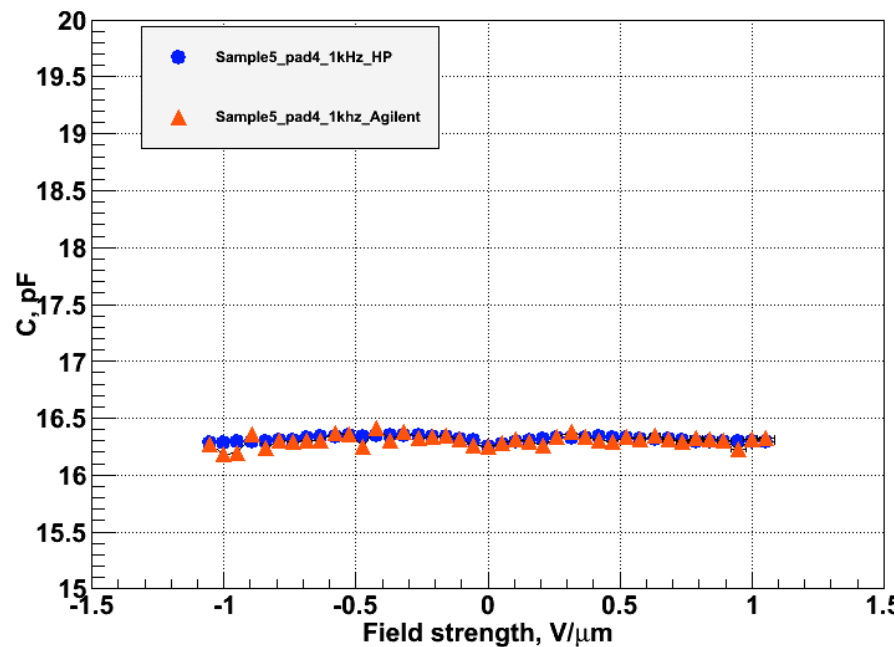
Instruments

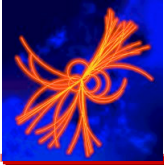
HP 4263B - 120 Hz, 1 kHz, 10 kHz, 100 kHz @ 1V ~U

Agilent E4981A - 120 Hz, 1kHz, 1 MHz

Contacted with needle probes, open correction for each frequency

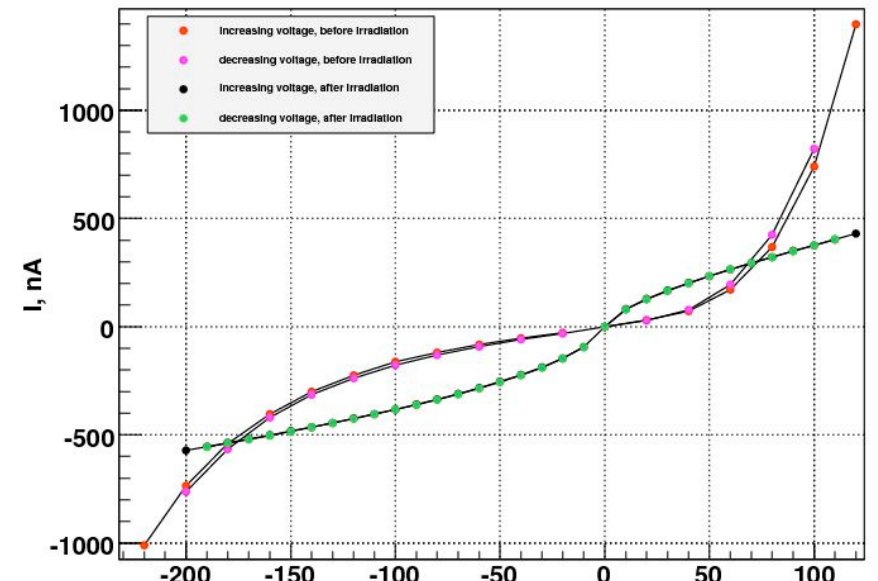
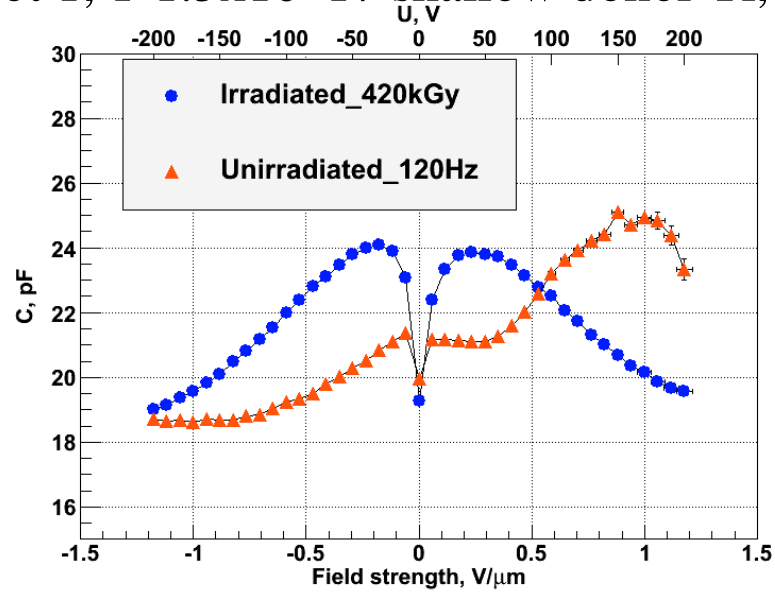
HV range -200V to +200V, 10V steps, 10 seconds setting time

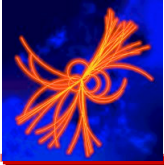




Sample 9

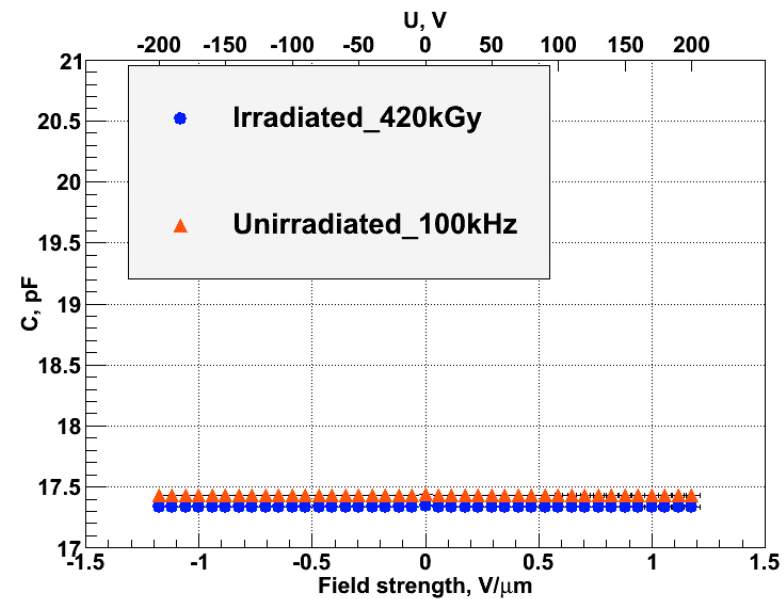
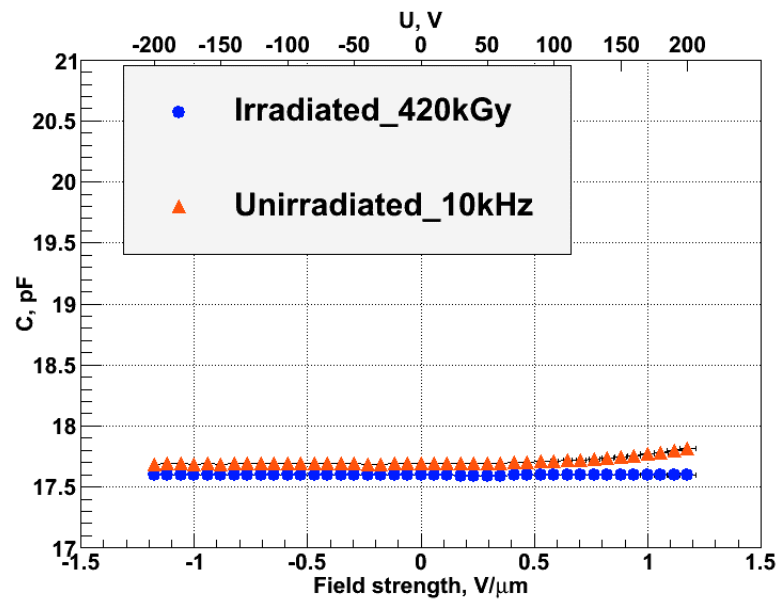
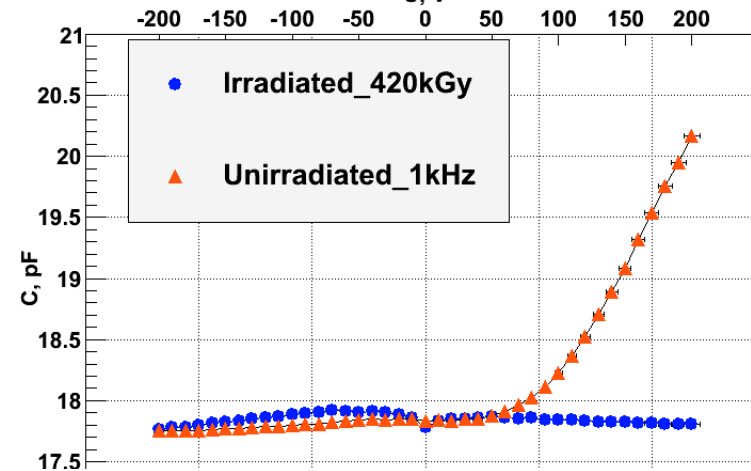
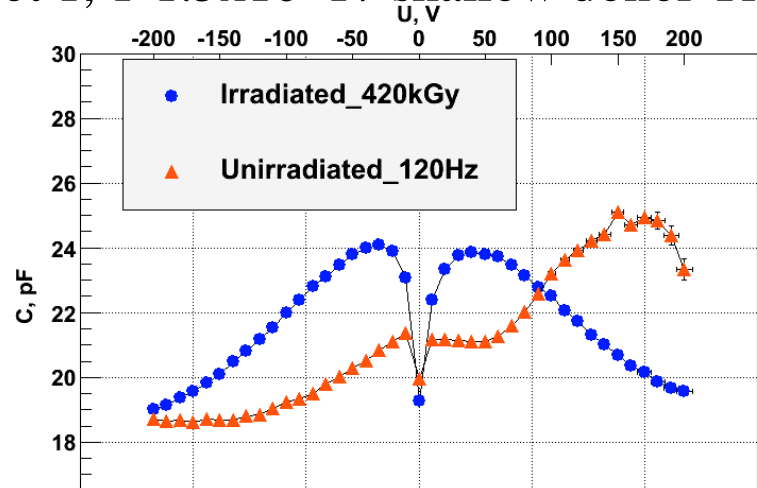
Lot 1, $1-1.5 \times 10^{17}$ shallow donor Tl, nonuniform doping, Pad 1 - 420 kGy





Sample 9

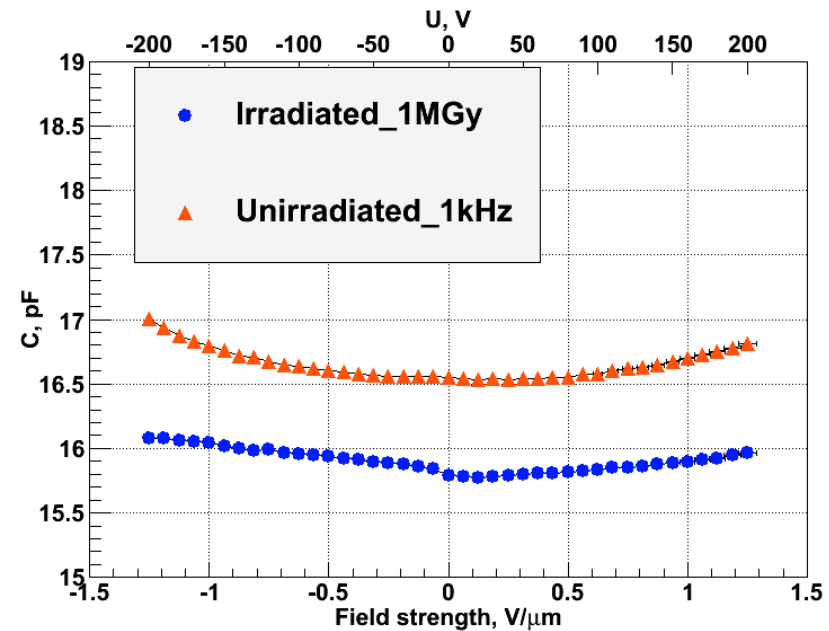
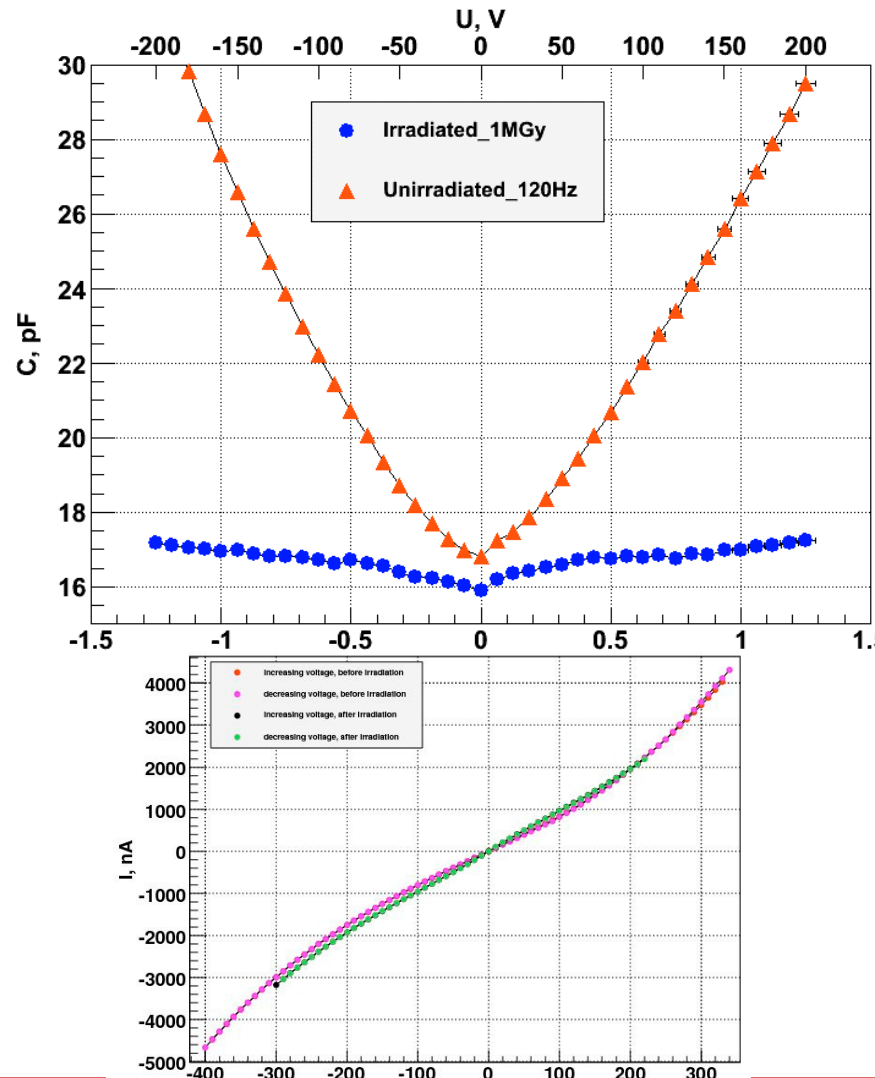
Lot 1, $1-1.5 \times 10^{17}$ shallow donor Tl, nonuniform doping, Pad 1 - 420 kGy

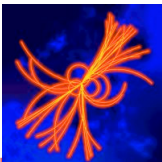




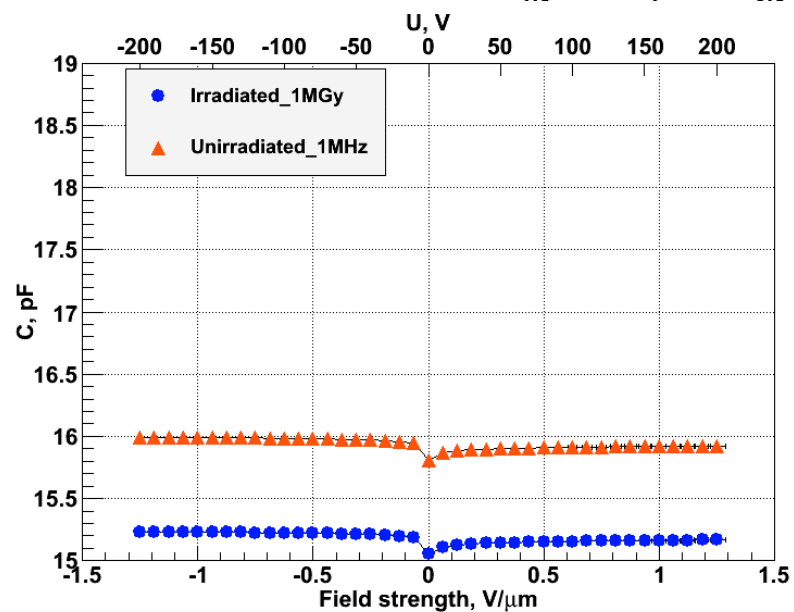
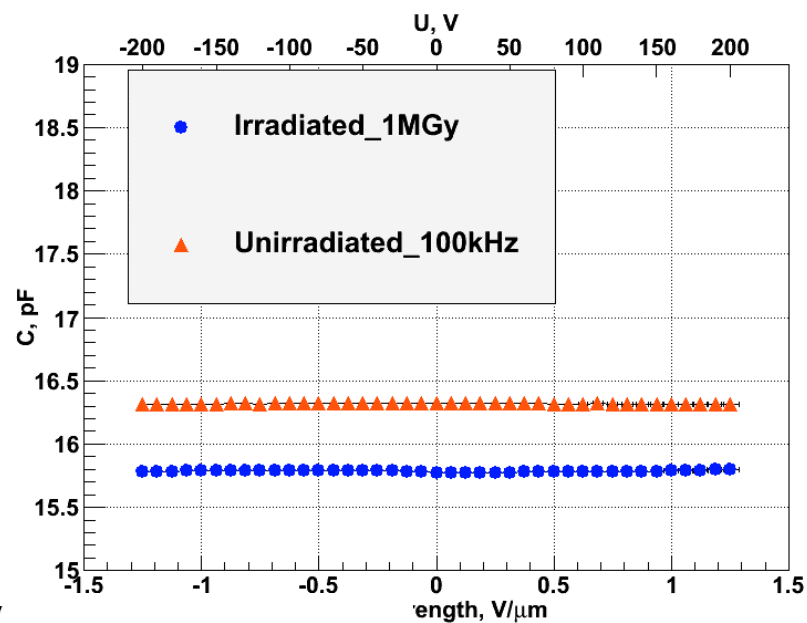
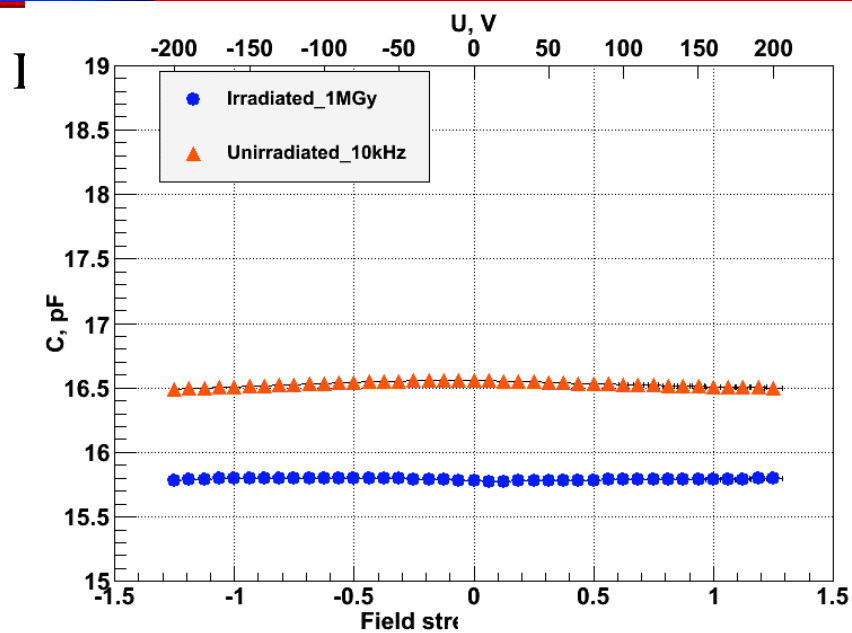
Sample 31

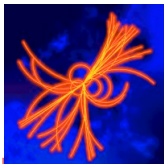
Lot 3, $1-3 \times 10^{16}$ shallow donor Sn, uniform doping, Pad 4 - 1 MGy





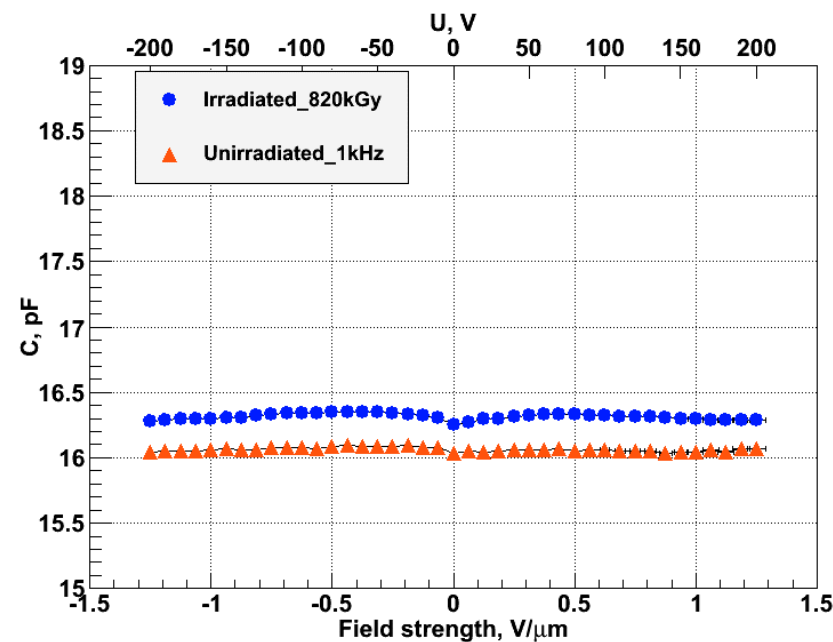
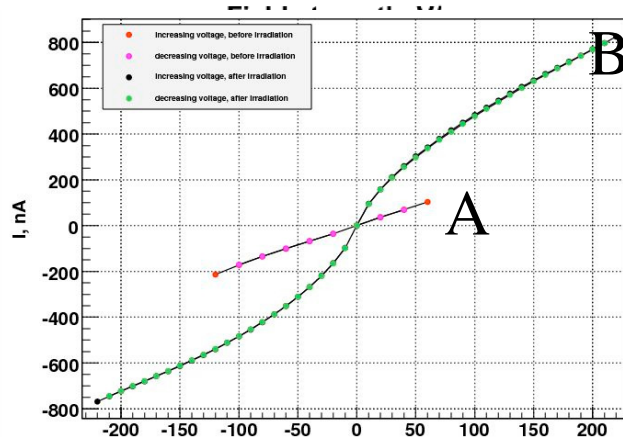
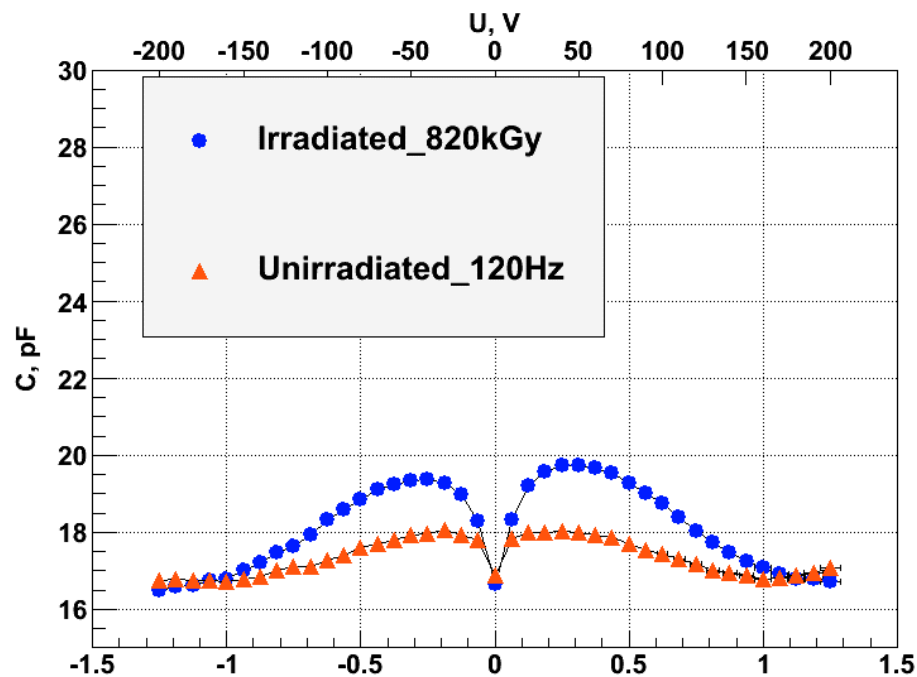
Sample 31

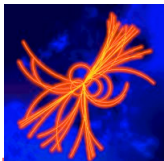




Sample 5

Lot 2, $5-6 \times 10^{17}$ shallow donor Tl, uniform doping, Pad 4 - 820 kGy, same as sector





Sample 5

