PION IRRADIATION RUN 2014 at PSI

12/05/2014 - 02/06/2014

The experimental hardness factor for 300 MeV/c pions is = 1.11

Due to the uncertainty on the hardness factor, the equivalent fluences shall be quoted with an error of +- 20 %

The Temperature during irradiation ranged from 25 ºC to 26.5 ºC

Many thanks to PSI for providing us this pion beam line.

Dear user please don't forget to add this acknowladgement note into your publications:

"This work was performed at the proton accelerator, Paul Scherrer Institut, Villigen, Switzerland."

SET #	Sample ID	Comment	User	Req. Fluence [π/cm^2]	Detector Size [mm x mm]	Time IN	Time OUT	AI #	Achieved Flu. [π/cm^2]	Error [+/- %]
1889	CVD diamond PLT S79	back for measurement if possible	Cerv	1.00E+14	10x10	20/05/2014 16:12	23/05/2014 16:01	3003-3012-3013	**1.00E+14**	7
1890	CVD diamond PLT S52	back for measurement if possible, otherwhise 5e14	Cerv	5.00E+14	10x10	20/05/2014 16:12	30/05/2014 18:45	3003-3011	**3.63E+14**	7
1891	3 n-type MCz diodes with different numer of guad-rings (3,4,16)	if different, better less	Muenstermann	1.00E+13	10x10	20/05/2014 16:12	21/05/2014 01:07	2951	**1.07E+13**	7
1892	4 n-type MCz diodes with different numer of guad-rings (1,2,4,16)	if different, better less	Muenstermann	1.00E+14	10x10	20/05/2014 16:12	23/05/2014 16:01	3003-3012-3013	**1.00E+14**	7
1893	4 n-type MCz diodes with different numer of guad-rings (0,1,3,16)	if different, better less	Muenstermann	5.00E+14	10x10	20/05/2014 10:22	30/05/2014 00:31	2981	**2.76E+14**	7
1894	2 n-type MCz diodes with different numer of guad-rings (2,16)	if different, better less	Muenstermann	1.00E+15	10x10	20/05/2014 10:22	02/06/2014 06:00	2980	**4.26E+14**	7
1895	1 n-type Fz ATLAS FEI-I4 single chip	HIGHEST possible	Muenstermann	1.00E+15	20x20	20/05/2014 10:22	02/06/2014 06:00	2950	**3.57E+14**	7
1896	1 n-type MCz ATLAS FEI-I4 single chip	HIGHEST possible	Muenstermann	1.00E+15	20x20	20/05/2014 10:22	02/06/2014 06:00	2950	**3.57E+14**	7
1897	261636-8-42, 271713-26-50, 271713-26-51, 261636-10-17, MCz200N_05_DiodeL_3, MCz200Y_01_DiodeL_2, FTH200Y_02_Diode_1, FTH200N_23_DiodeL_5	AJ-1,2,14,15,16	Junkes	1.60E+11	5x5	20/05/2014 16:12	20/05/2014 16:16	from SEC	**1.34E+11**	7
1898	8364-07-60, 8364-02-36	AJ-3	Junkes	3.20E+11	5x5	20/05/2014 16:12	20/05/2014 16:39	from SEC	**2.74E+11**	7
1899	8364-06-7, 8364-02-52	AJ-4	Junkes	1.10E+13	5x5	20/05/2014 16:12	21/05/2014 01:07	2951	**1.07E+13**	7
1900	261636-8-43, 261636-14-51, 8364-07-65, 261636-10-18, 8364-02-38, 261636-4-43, 271713-28-08, 271713-28-09, FTH200N_24_DiodeL_5, MCz200Y_02_DiodeL_3, MCz200N_05_DiodeL_8, FTH200Y_02_Diode_2	AJ-5,6,7,17,18,19	Junkes	3.20E+13	5x5	20/05/2014 16:12	21/05/2014 10:27	2952	**3.70E+13**	7
1901	261636-10-24, 261636-4-44, 261636-14-52, 261636-8-44, 271713-28-51, 8364-02-29-3, 8364-07-45-1, MCz200Y_01_Diode_1, FTH200Y_03_Diode_2, MCz200N_04_Diode_2, FTH200N_01_Diode_2, FZ120Y_01_DiodeL_8, FZ120N_07_DiodeL_8, FZ200Y_04_DiodeL_11, FZ200N_05_DiodeL_11	AJ-8,9,11,20,21,27,29	Junkes	3.20E+14	5x5	20/05/2014 10:22	26/05/2014 22:46	2982	**1.71E+14**	7
1902	271713-28-53, 8364-02-29-4, 261636-10-29-2, 8364-07-45-2, 261636-13-20-2, MCz200Y_02_Diode_1, FTH200Y_03_Diode_1, MCz200Y_05_DiodeS_14, FTH200Y_03_DiodeS_13, MCz200N_09_DiodeS_13, FTH200N_24_DiodeL_2, FTH200N_03_DiodeS_14, FZ120N_03_DiodeL_8, FZ200N_07_DiodeL_8, FZ120Y_05_DiodeL_8, FZ200Y_06_DiodeL_2	AJ-10,12,13,22,23,26,28	Junkes	1.10E+15	5x5	20/05/2014 10:22	02/06/2014 06:00	2979	**5.44E+14**	7
1903	W7-J3		Mandic	1.00E+14	10x10	20/05/2014 16:12	23/05/2014 16:01	3003-3012-3013	**1.00E+14**	7
1904	W7-D11		Mandic	2.00E+14	10x10	20/05/2014 10:22	24/05/2014 21:42	2983	**1.11E+14**	7
1905	W7-F7, W678-P2		Mandic	5.00E+14	10x10	20/05/2014 10:22	30/05/2014 00:31	2981	**2.76E+14**	7
1906	W7-D3, W678-P12		Mandic	1.00E+15	10x10	20/05/2014 10:22	02/06/2014 06:00	2980	**4.26E+14**	7
1907	AIDA 2012 - Cz-n and Fz-n		Vaiktus	1.00E+11	10x10	20/05/2014 16:12	20/05/2014 16:16	from SEC	**1.34E+11**	7
1908	AIDA 2012 - Cz-n and Fz-n		Vaiktus	3.00E+11	10x10	20/05/2014 16:12	20/05/2014 16:39	from SEC	**2.74E+11**	7
1909	AIDA 2012 - Cz-n and Fz-n		Vaiktus	1.00E+12	10x10	20/05/2014 16:12	20/05/2014 18:01	from SEC	**7.68E+11**	7
1910	AIDA 2012 - Cz-n and Fz-n		Vaiktus	3.00E+12	10x10	20/05/2014 16:12	20/05/2014 18:54	from SEC	**2.41E+12**	7
1911	AIDA 2012 - Cz-n and Fz-n		Vaiktus	1.00E+13	10x10	20/05/2014 16:12	21/05/2014 01:07	2951	**1.07E+13**	7
1912	AIDA 2012 - Cz-n and Fz-n		Vaiktus	3.00E+13	10x10	20/05/2014 16:12	21/05/2014 10:27	2952	**3.70E+13**	7
1913	AIDA 2012 - Cz-n and Fz-n		Vaiktus	1.00E+14	10x10	20/05/2014 16:12	23/05/2014 16:01	3003-3012-3013	**1.00E+14**	7
1914	AIDA 2012 - Cz-n and Fz-n		Vaiktus	3.00E+14	10x10	20/05/2014 10:22	26/05/2014 22:46	2982	**1.71E+14**	7
1915	AIDA 2012 - Cz-n and Fz-n		Vaiktus	1.00E+15	10x10	20/05/2014 10:22	02/06/2014 06:00	2980	**4.26E+14**	7
1916	AIDA 2012 - Cz-n and Fz-n	MAX	Vaiktus	3.00E+15	10x10	20/05/2014 10:22	02/06/2014 06:00	2953	**5.12E+14**	7
1917	2 diodes of W331		Gallrapp	1.00E+11	5x5	20/05/2014 16:12	20/05/2014 16:16	from SEC	**1.34E+11**	7
1918	2 diodes of W331		Gallrapp	3.00E+11	5x5	20/05/2014 16:12	20/05/2014 16:39	from SEC	**2.74E+11**	7
1919	2 diodes of W331		Gallrapp	1.00E+12	5x5	20/05/2014 16:12	20/05/2014 18:01	from SEC	**7.68E+11**	7
1920	2 diodes of W331		Gallrapp	3.00E+12	5x5	20/05/2014 16:12	20/05/2014 18:54	from SEC	**2.41E+12**	7
1921	2 diodes of W331		Gallrapp	1.00E+13	5x5	20/05/2014 16:12	21/05/2014 01:07	2951	**1.07E+13**	7
1922	2 diodes of W331		Gallrapp	3.00E+13	5x5	20/05/2014 16:12	21/05/2014 10:27	2952	**3.70E+13**	7
1923	2 diodes of W331		Gallrapp	1.00E+14	5x5	20/05/2014 16:12	23/05/2014 16:01	3003-3012-3013	**1.00E+14**	7
1924	2 diodes of W331		Gallrapp	3.00E+14	5x5	20/05/2014 10:22	26/05/2014 22:46	2982	**1.71E+14**	7
1925	2 diodes of W331		Gallrapp	1.00E+15	5x5	20/05/2014 10:22	02/06/2014 06:00	2980	**4.26E+14**	7
1926	2 diodes of W331	MAX	Gallrapp	3.00E+15	5x5	20/05/2014 10:22	02/06/2014 06:00	2953	**5.12E+14**	7
1927	2 diodes 25um HPK - monitor APD		Heering	2.00E+11	5x5 and 10x10	20/05/2014 16:12	20/05/2014 16:39	from SEC	**2.74E+11**	7
1928	M200P_01_Badd_1, FTH200P_01_Badd_1, MCz200N_10_Badd_2, FTH200N_25_Badd_2	AJ-24, 25	Junkes	1.10E+15	27 x 6 (tilted)	20/05/2014 10:22	02/06/2014 06:00	2949	**3.72E+14**	7
1929	4 bump-bonded pixel detectors (8243-08/011, 8244-03/23)		Rohe	1.50E+15	10x10	20/05/2014 10:22	02/06/2014 06:00	2979	**5.44E+14**	7
1930	4 bump-bonded pixel detectors (8243-08/011, 8244-03/23)		Rohe	3.00E+15	10x10	20/05/2014 10:22	02/06/2014 06:00	2953	**5.12E+14**	7
1931	ESA SEU Monitor		Garcia Alia	1.00E+11	20x20	20/05/2014 21:34	21/05/2014 10:27	3002	**1.36E+13**	7
					10x10	20/05/2014 21:34	21/05/2014 10:27	3002.1	**9.38E+12**	7
					10x10	20/05/2014 21:34	21/05/2014 10:27	3002.2	**1.80E+13**	7
					10x10	20/05/2014 21:34	21/05/2014 10:27	3002.3	**1.38E+13**	7
					10x10	20/05/2014 21:34	21/05/2014 10:27	3002.4	**1.33E+13**	7