

radiation effects on <i>silicon</i> studied at SIRAD		
energy transfer	protons	heavy ions
<i>displacement</i>	bulk damage	...
<i>ionization</i>	surface damage	total dose effects single event effects

<i>Potential = 15 MV, inj = 0.15 MV</i>					
ion	Kin (MeV)	surface LET (MeV·cm ² /mg)	Range (μm)	Probability	Rigidity (T-m)
<i>protons</i>	30.15	0.015	5000	1	0.80
⁷ <i>Li</i>	60.15	0.35	435	0.94	1
¹² <i>C</i>	101.4	1.4	191	0.35	0.8
¹⁶ <i>O</i>	116.4	2.9	122	0.30	0.9
¹⁹ <i>F</i>	131.4	3.6	113	0.21	0.9
²⁸ <i>Si</i>	168.9	8.5	70	0.13	0.9
³⁵ <i>Cl</i>	183.9	12.4	57	0.11	1
⁵⁸ <i>Ni</i>	247.7	26.5	41	0.069	1.02
⁶³ <i>Cu</i>	247.7	28	38	0.067	1.06
⁷⁹ <i>Br</i>	258.9	38	35	0.055	1.14
¹⁰⁷ <i>Ag</i>	296.4	53	33	0.044	1.22
¹²⁷ <i>I</i>	296.4	59	30	0.040	1.33
¹⁹⁷ <i>Au</i>	333.9	80	28	0.032	1.54