Radiation damage by neutrons on silicon detectors

assume 1000 loops , 15 Hz , 1 year $= 10^7$ seconds

acceptable hits per year $= 1.5\ 10^{14}$

c.m.	μ's/bunch	neutrons/cm^2/crossing	Hits/year	*Lifetime*
Tev	10^{12}	above 100 Kev	10^{13}	years
4	2	100	3.	5
.5	4	50	3.	5
.1	4	30	1.8	8