RADIATION LEVELS IN ATLAS CATHODE STRIP CHAMBERS (CSC)

CSC Location	
Zmin(cm)	696
Zmax(cm)	786
Rmin(cm)	88
Rmax(cm)	207

Dose Levels are for 10 year period

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SRL	CSC	LAr
TID (Krad)	41.7	5
NIEL (1 MeV,n/cm^2)	5.58E+13	1.6E+12
SEE/SEU (>20 MeV,h/cm^2)	2.24E+12	7.7E+11

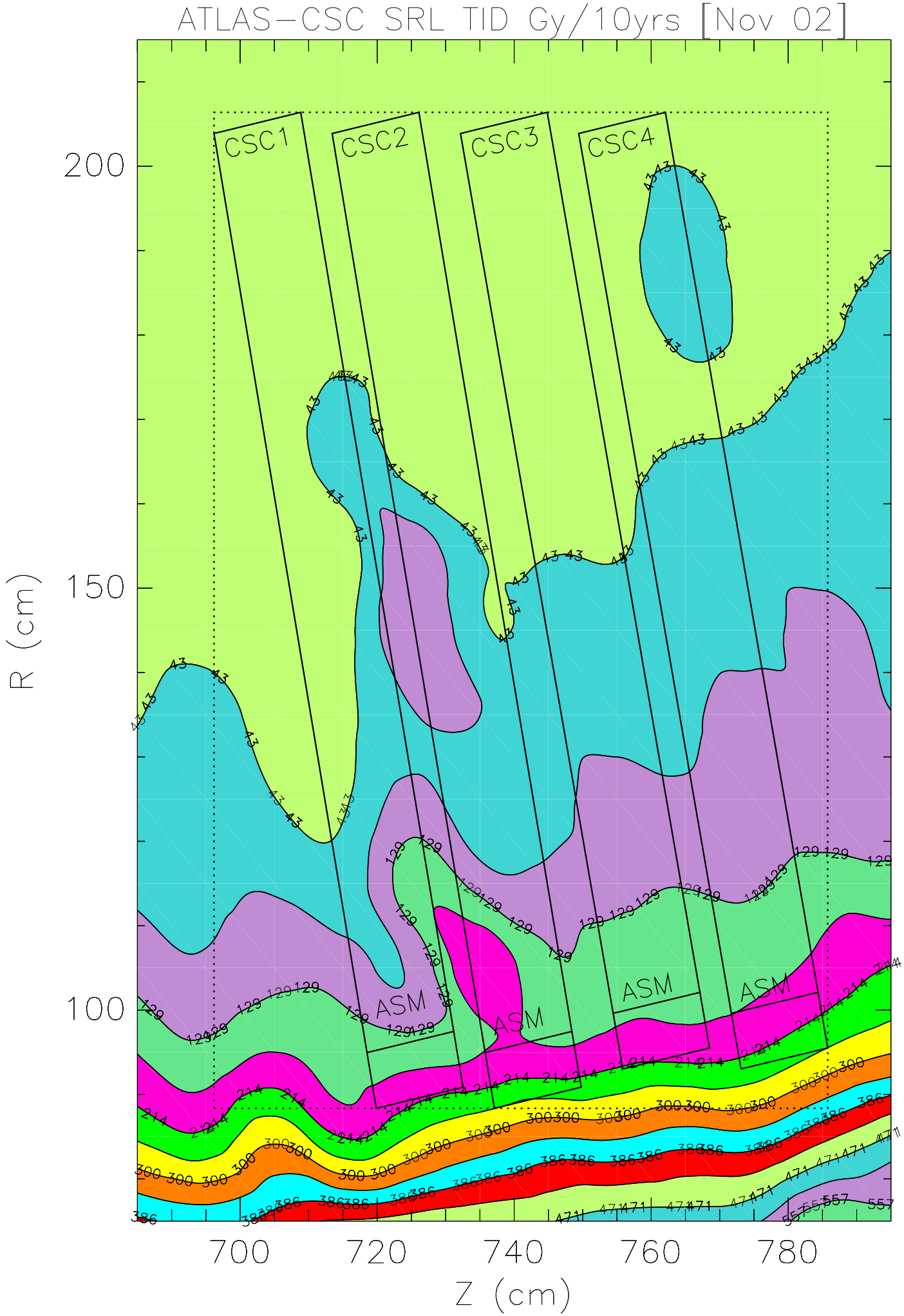
RTC Preselection	SF	CSC	LAr
TID (Krad)	35	1459.5	170
NIEL (1 MeV,n/cm^2)	10	5.6E+14	1.6E+13
SEE/SEU (>20 MeV,h/cm^2)	10	2.2E+13	7.7E+12

RTC Production	SF	CSC	LAr
TID (Krad)	17.5	729.75	87.5
NIEL (1 MeV,n/cm^2)	5	2.8E+14	8.0E+12
SEE/SEU (>20 MeV,h/cm^2)	5	1.1E+13	3.8E+12

SRL History	EXCEL	Nov '01	Nov '00
TID (Krad)	36.2	24.3	19.1
NIEL (1 MeV,n/cm^2)	5.58E+13	7.1E+12	5.4E+12
SEE/SEU (>20 MeV,h/cm^2)	2.24E+12	1.5E+12	1.1E+12

Reference:

EXCEL	http://atlas.web.cern.ch/Atlas/GROUPS/FRONTEND/radhard.htm#Radiation Constraints
Nov '01	http://atlas.web.cern.ch/Atlas/GROUPS/FRONTEND/WWW/RAD/RadWebPage/RadConstraint/Shupe_Simul_Nov_01/nov01_niel_tid_see.pdf
Nov '00	http://atlas.web.cern.ch/Atlas/GROUPS/FRONTEND/WWW/RAD/RadWebPage/RadConstraint/Radiation_Tables_181100.pdf


ATLAS–CSC SRL TID Gy/10yrs [Nov 02]
CSC1
CSC2
CSC3
CSC4
ASM
ASM
ASM
ASM
R (cm)
Z (cm)
200
150
100
700
720
740
760
780

ATLAS−CSC SRL NIELx10^12 10yrs [Nov 02]
CSC1
CSC2
CSC3
CSC4
ASM
ASM
ASM
ASM
R (cm)
Z (cm)
200
150
100
700
720
740
760
780

ATLAS−CSC SRL SEEx10^12 10yrs [Nov 02]
CSC1
CSC2
CSC3
CSC4
ASM
ASM
ASM
ASM
R (cm)
Z (cm)
200
150
100
700
720
740
760
780