

Change in particle flux: Standard cladding 8 cm of poly + 3 cm Pb on JD, JT and JF

G

th.n:	4.0kHz	-2%
hi.n:	733 Hz	-2%
had:	382 Hz	+1%
c.r.:	30 Hz	-2%
p.r.:	11.0 Hz	-0%

th.n. = thermal neutron rate (neutrons < 100 keV)
 hi.n. = high energy neutron rate (neutrons > 100 keV)
 had = charged and neutral hadron rate > 20 MeV
 c.r. = counting rate
 $= 0.0005n + 0.0117 \gamma + (\mu + p + \pi + 0.25e) / 2$
 p.r. = penetrating particle rate
 $= 0.1 \cdot 0.0117 \gamma + (\mu + p + \pi + 0.25e) / 2$

F

th.n:	3.6kHz	-3%
hi.n:	780 Hz	-0%
had:	151 Hz	+3%
c.r.:	24 Hz	-1%
p.r.:	5.5Hz	-1%

Forward Toroid

th.n:	27 kHz	-3%
hi.n:	11 kHz	-0%
had:	1.6kHz	+1%
c.r.:	175 Hz	-0%
p.r.:	46 Hz	-0%

D

th.n:	3.6kHz	-14%
hi.n:	912 Hz	-10%
had:	367 Hz	-8%
c.r.:	63 Hz	-5%
p.r.:	13.9Hz	-3%

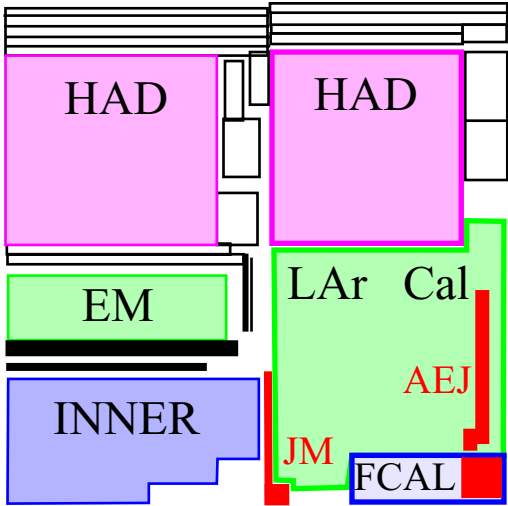
th.n:	1.9kHz	-1%
hi.n:	574 Hz	-2%
had:	32 Hz	+5%
c.r.:	19 Hz	-0%
p.r.:	2.2 Hz	+12%

B

th.n:	37 kHz	-7%
hi.n:	31 kHz	-1%
had:	7.7kHz	+3%
c.r.:	443 Hz	+1%
p.r.:	156 Hz	+2%

C

th.n:	2.2kHz	-33%
hi.n:	1.2kHz	-15%
had:	493 Hz	-8%
c.r.:	147 Hz	-3%
p.r.:	27.6Hz	+1%



E

JForward

JNose

TAS

QUAD