

Change in particle flux:

Beampipe in stainless steel Single walled Al beampipe

G

th.n: 2.6kHz -37%
 hi.n: 465 Hz -37%
 had: 100 Hz -39%
 c.r.: 16 Hz -36%
 p.r.: 3 Hz -35%

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

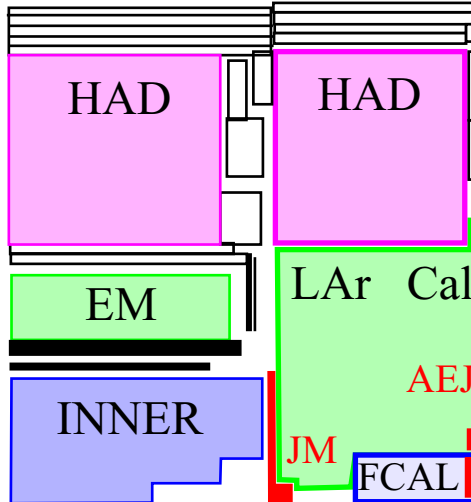
th.n: 2.5kHz -36%
 hi.n: 486 Hz -36%
 had: 89 Hz -38%
 c.r.: 15 Hz -36%
 p.r.: 3 Hz -45%

Forward
Toroid

th.n: 21 kHz -34%
 hi.n: 7.4kHz -36%
 had: 929 Hz -36%
 c.r.: 130 Hz -26%
 p.r.: 37 Hz -17%

th.n: 2.5kHz -35%
 hi.n: 579 Hz -33%
 had: 221 Hz -35%
 c.r.: 62 Hz -8%
 p.r.: 12 Hz -17%

th.n: 1.8kHz -17%
 hi.n: 598 Hz -12%
 had: 55 Hz -5%
 c.r.: 23 Hz -0%
 p.r.: 5 Hz -6%



A
B

th.n: 34 kHz -34%
 hi.n: 22 kHz -32%
 had: 4.7kHz -32%
 c.r.: 363 Hz -15%
 p.r.: 125 Hz -13%

C
D

th.n: 1.7kHz -30%
 hi.n: 666 Hz -31%
 had: 283 Hz -32%
 c.r.: 156 Hz +3%
 p.r.: 24 Hz -7%

E