

Change in particle flux: No cladding on toroid
4 cm of poly-Li on front and back of toroid

G

th.n: 3.0kHz -16%
 hi.n: 704 Hz -6%
 had: 171 Hz -2%
 c.r.: 21 Hz -12%
 p.r.: 4.0 Hz -13%

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
 $= 0.1 + 0.0117 \gamma + (\mu + p + \pi + 0.25e) / 2$

F

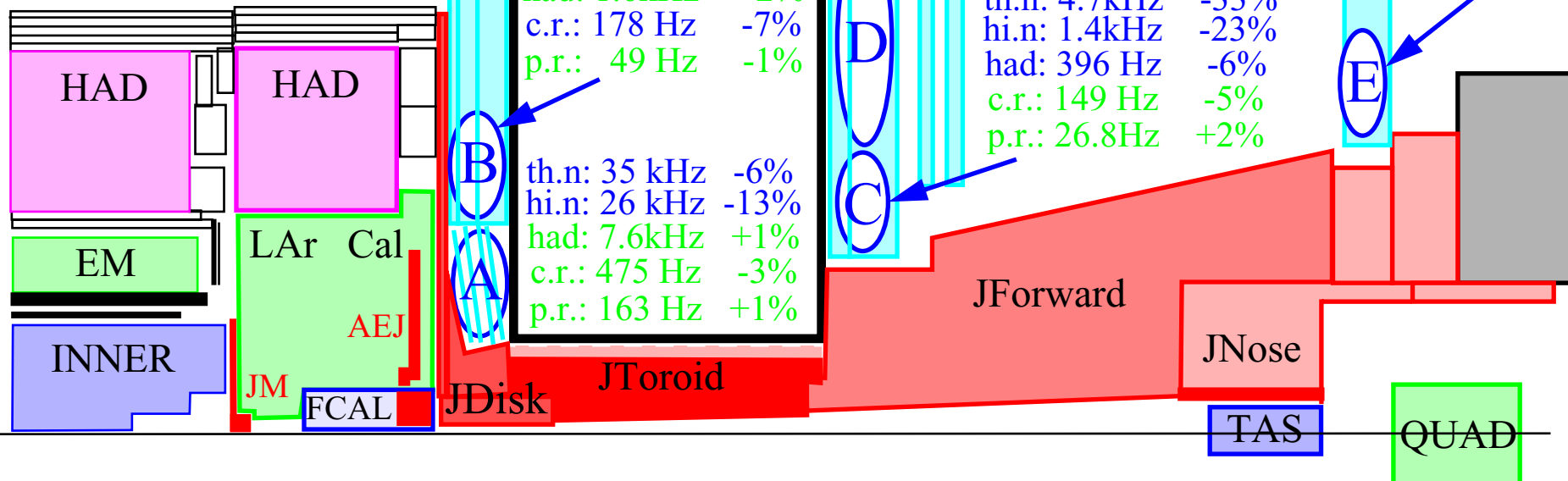
th.n: 2.8kHz -17%
 hi.n: 690 Hz -12%
 had: 151 Hz -3%
 c.r.: 20 Hz -16%
 p.r.: 4.7Hz -25%

Forward Toroid

th.n: 24 kHz -12%
 hi.n: 9.5kHz -15%
 had: 1.6kHz -2%
 c.r.: 178 Hz -7%
 p.r.: 49 Hz -1%

th.n: 4.4kHz -22%
 hi.n: 1.1kHz -10%
 had: 381 Hz -6%
 c.r.: 64 Hz -8%
 p.r.: 13.9Hz -5%

th.n: 2.0kHz -6%
 hi.n: 556 Hz -9%
 had: 29 Hz -5%
 c.r.: 17 Hz -8%
 p.r.: 3.2 Hz -10%



th.n: 35 kHz -6%
 hi.n: 26 kHz -13%
 had: 7.6kHz +1%
 c.r.: 475 Hz -3%
 p.r.: 163 Hz +1%

th.n: 4.7kHz -33%
 hi.n: 1.4kHz -23%
 had: 396 Hz -6%
 c.r.: 149 Hz -5%
 p.r.: 26.8Hz +2%