## Update on Q4 Vacuum Valves Impedance

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## **Octupole Threshold and Added Current**

B1, positive oct. polarity,  $\tau_b = 1.0$  ns, Nb=2.3e+11, M=3564, damp=0.01 B1, positive oct. polarity,  $\tau_b = 1.0$  ns, Nb=2.3e+11, M=3564, damp=0.01





