

Leak Width in a Multi-cusp Field Configuration: A Revisit with a Versatile Experimental device

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The cusp configuration reduces the plasma losses to boundary by diverging plasma to the narrow regions where the magnetic field lines intersect the wall. The efficiency of multi dipole cusp confinement depends on the plasma losses through cusp loss area, widely known as leak width. The Multi-line cusp Plasma Device (MPD) used electromagnets for plasma confinement and gives opportunity to vary the magnetic field strength which controls the plasma loss area. We discuss the scaling of leak width with different magnetic field strength to understand its role in the particle confinement for such configurations

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