

## **A VERSATILE MULTI-CUSP PLASMA DEVICE FOR CONFINING CONTACT IONIZED ALKALI IONS: SOURCE FOR THE EXPERIMENTAL STUDIES**

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- A versatile Multi-cusp Plasma Device (MPD) with Variable multi pole line cusp magnetic field has been designed and constructed for the confinement of contact ionized alkali plasma.
- Two different type of plasma source were designed and constructed.
- Comparative study for both the source has been carried out for high degree of temperature achievement and uniformity.
- Advantages of improved design which uses two stage heating method over co-axial design are shown.
- For the characterization of temperature uniformity analysis over the surface of plate for both the design, a non-contact thermal imaging method was used.