

# **79. Distribution Of Intensity Across Output Laser Beam In Copper Vapour Laser Discharge**

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## **ABSTRACT**

We investigated the change in the intensity distribution across the laser beam by changing the electron temperature at the axis. It found that the intensity distribution is very sensitive function of the electron temperature at the axis. If the electron temperature is very low the intensity distribution is very much similar to the Gaussian distribution. The intensity distribution remains Gaussian up to certain electron temperature at the axis. If the temperature is increase above certain value the intensity distribution becomes flat at the axis. Further increase in temperature gives rise to dip at the axis in the intensity distribution. The dip at the axis go on increasing and the radius of a circle, where the intensity is maximum, go on increasing as the electron temperature at the axis is increase. Further increase in temperature gives rise to annular shape of laser beam.