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A New Method to Produce Laser Calibration Beams in Gaseous Detectors

A new method utilizing diffraction of UV laser beams on annular diaphragms provides very narrow laser beams with full diameter 100-400 mm, divergence ~ 0.05 mrad and effective length up to 10 meters, which exceeds existing methods with focusing optics. The characteristics of laser beams and linear ionization created with different diaphragm sizes are present. Optics schemes proposed to create a system with new beams.

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