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Characterization of a New Ionization Chamber in Radiotherapy Beams: Angular Dependence and Variation with Distance

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A new double faced ionization chamber was constructed at the Calibration Laboratory of IPEN. It has different collecting electrode materials: aluminium and graphite. It was irradiated in standard radiotherapy beams (^{60}Co and X-rays). The chamber response variation with distance and the angular dependence of this ionization chamber were evaluated. It was verified that the chamber response follows the inverse square law within a maximum variation of 11.2% in relation to the reference value. For the angular dependence it showed good agreement with international standards.

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