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A System for Magnetic Measurement of the Triplet Quadrupoles for DTL

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In this paper we show that the design of specialized rotating coil system to measure magnetic Axis of the triplet quadrupoles whose magnetic axis deviation are less than 0.1mm and angle deviation are less than 1mrad between them, built for DTL of a Linear accelerators. In this paper we describe the design of the rotating coils canceling the first two field harmonics, and the process of the measurement. Based on the results obtained on the two Triplets, we show that this system meets the requirements.

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