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8.1 Measurement of the fast electron bremsstrahlung emissions on J-TEXT

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The measurement of supper thermal electron population is an important issue for the study of runaway electrons in the low density discharges or during the disruptions in tokamak plasmas. The fast electron bremsstrahlung (FEB) emissions resulted from the interaction between the low energy runaway electrons and the bulk plasma can provide significant information on the runaway generation process. A multi-channel FEB diagnostics has been developed on the J-TEXT tokamak. The FEB system observe the FEB emissions in the energy range of 30˜300keV. It can monitor the runaway generation process since its beginning of formation.

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