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GEM detectors for WEST and potential application for heavy impurity transport studies

In Tokamaks, plasma emits as a volumetric Soft-X-Ray (SXR) source. Emitted X-rays can give very useful information about plasma stability, shape and impurity content. In the particular case of tokamaks equipped with metallic walls, mainly Tungsten, the interplay between particle transport and MagnetoHydroDynamic (MHD) activity might lead to impurities accumulation and finally to sudden plasma termination called disruption. Studying such phenomena is thus essential if stationary discharges are to be achieved.

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