

ABSTRACT

It is foreseen that ITER will employ a number of discrete limiters for the start-up and ramp-down phases of each discharge as well as for protection of the main wall during the diverted phase. Predictions are required of the radial power e-folding length, λ_q , in order to estimate the power loading on the limiters. This 3D problem has been addressed by Kobayashi *et al.* [*Nucl. Fusion* **47** (2007) 61–73] using a numerical edge code, EMC3-EIRENE. An analytic 3D model is presented here which well approximates the code calculations of λ_q , providing simple and convenient expressions for λ_q in terms of the shape and number of discrete limiters.

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