





Study of SPIDER beam current through visible light measured by beam imaging diagnostic M. Ugoletti¹², M. Agostini², A. Pimazzoni²

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[1] SPIDER in the roadmap of the ITER neutral beams, G. Serianni, et al., Fusion Eng. Des. 146 (2019)







$$\begin{cases} d\Gamma^{-}/_{dz} = -\Gamma^{-}(\sigma_{-10} + \sigma_{-11})n_{bk} \\ d\Gamma^{+}/_{dz} = \Gamma^{-}\sigma_{-11}n_{bkg} + \Gamma^{0}\sigma_{01}n_{bkg} - \Gamma \\ d\Gamma^{0}/_{dz} = \Gamma^{-}\sigma_{-10}n_{bkg} + \Gamma^{+}\sigma_{10}n_{bkg} - \Gamma \end{cases}$$





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