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Particle emission from a static black-hole on a tense codimension-2 brane[1] USAMA AL-BINNI, GEORGE SIOPSIS, University of Tennessee — The introduction of finite brane tension to the study of mini black-hole evaporation in brane-world models has been recently shown to modify possible observables that might be seen at the LHC. We present an analytical study of grey-body factors for Hawking radiation emitted by Schwarzschild black-holes localized on a tensional 3-brane in a 6-dimensional bulk. The calculations are done for low frequencies and for large imaginary frequencies for various types of perturbation, and the results are then compared with exact numerical results.

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