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Bottomonium anisotropic flow from an escape mechanism

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Bottomonia are produced mostly in the initial stage of a heavy ion collision. Once created, any subsequent interaction with the medium can as a first approximation be dealt with as leading to dissociation. In that picture, the bottomonia surviving until the final state are those that escaped any interaction with the medium. We compute the anisotropic flow of bottomonia arising from their differential survival probability in an asymmetric medium of massless particles, using different assumptions for the microscopic details of the latter. In particular, we show that the Fourier coefficients v_n for the bottomonium flow are sensitive to the initial eccentricities of both the bulk medium geometry and the bottomonium distribution.

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