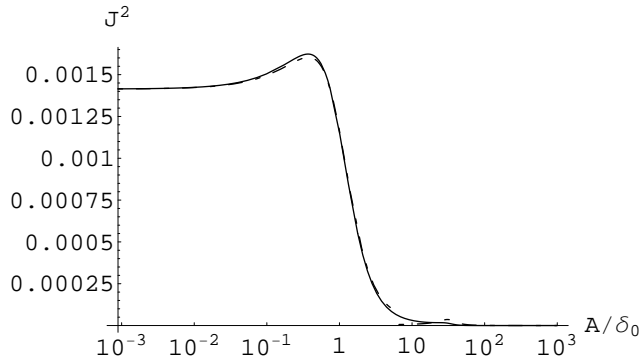


FIG. 3: The evolution of J^2 from the numerical (solid) and the approximate (dot-dashed) solutions.



vacuum satisfies $x_{i0} + y_{i0} \cong 0$, which happens to lie on the “fixed surface” of the evolution equations, so that $x_i + y_i \cong 0$ for all A values. These solutions are summarized in Eq. (28), which exhibits the extraordinary simplicity of W as a function of A . These results are found to be quite accurate when we compare them to those obtained by numerical integration of the equations. It is hoped that they will be useful in assessing the matter effects in connection with the long baseline experiments, as well as efforts to determine CP-violation in the leptonic sector.

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