



Erratum to: Inclusive probability of particle creation on classical backgrounds

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In the published version of this article, formulas (140) and (142) were improperly corrected.

The corrected formulas are as follows:

$$\begin{aligned} & \det[\bar{\Phi}\Phi^T(1 - \epsilon\tilde{P}^T X \tilde{P} X^\dagger)] \\ &= \det[1 + \epsilon\bar{\Phi}\Phi^T(P^T X \tilde{P} X^\dagger + X P X^\dagger)] \\ &= \det[1 + \epsilon\Phi^T P^T (\Phi^{-1})^T \Psi^\dagger \tilde{P} \Psi + \epsilon\Psi^\dagger P \Psi] \\ &=: \det(1 + \Omega), \end{aligned} \quad (140)$$

$$\begin{aligned} \det(1 + \Omega) &= e^{\text{Sp}\Omega} \det_2(1 + \Omega) \\ &= e^{\epsilon\text{Sp}(2\Psi^\dagger P \Psi - \Phi^T P^T (\Phi^{-1})^T \Psi^\dagger P \Psi)} \det_2(1 + \Omega), \end{aligned} \quad (142)$$

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