Erratum

Path integrals and time-dependent mean-field theories

J.-P. BLAIZOT and H. ORLAND
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The explicit form of the closure relation given by equation (9) is to be replaced by :

$$\oint \frac{du}{2\pi i u} u^{n_p n_h} e^u \int \prod_{ph} \frac{dz_{ph}^*}{2\pi i} \times \\ \times \exp\left(-u \sum_{ph} z_{ph}^* z_{ph}\right) |z\rangle \langle z| = \mathbb{1}.$$

Other measures are of course possible. All the following derivations and the conclusions of the paper are independent of the explicit form of the measure. (In the above formula n_p and n_h denote the numbers of particle and hole states respectively and the integration over u is to be carried on a complex contour around the origin.)