$Z_{u} = \mathbb{E}^{\mu_{0}^{u}} \left[exp(-\Phi_{u}(u)) \right], 18mu Z_{\boldsymbol{\sigma} = \mathbb{E}^{\mu_{0}^{\sigma}} \left[exp(-\Phi_{\boldsymbol{\sigma}(\boldsymbol{\sigma})}) \right]}.$