

*Erratum***Selfconsistent Diabatic Approach  
to Dissipative Collective Nuclear Motion**K. Niita<sup>1</sup>, W. Nörenberg<sup>2</sup>, and S.J. Wang<sup>3</sup><sup>1</sup> Institut für Theoretische Physik, Justus-Liebig-Universität Giessen, D-6300 Giessen, Federal Republic of Germany<sup>2</sup> Gesellschaft für Schwerionenforschung (GSI), Planckstrasse 1, D-6100 Darmstadt 11, Federal Republic of Germany<sup>3</sup> Institute of Modern Physics, Academia Sinica, Lanzhou, China

Received September 10, 1987

Z. Phys. A – Atomic Nuclei 326, 69–77 (1987)

In the Eqs. (4.5) to (4.7) the necessary references to the statistical equilibrium with energy  $\langle H \rangle_{\text{equ}}^0$  (excluding the collective kinetic energy) and occupation probabilities  $n_\alpha^{\text{equ}}(\mathbf{q}, t)$  for fixed collective variables is missing. In order to obtain the correct form of (4.5) and (4.6) one has to replace the term  $\sum_\alpha \varepsilon_\alpha^{(s)} \rho_{\alpha\alpha}$  by

$$\langle H \rangle_{\text{equ}}^0 + \sum_\alpha \varepsilon_\alpha^{(s)}(\mathbf{q}) \{ \rho_{\alpha\alpha}(t) - n_\alpha^{\text{equ}}(\mathbf{q}, t) \}$$

where terms quadratic in  $\rho_{\alpha\alpha} - n_\alpha^{\text{equ}}$  are neglected. Thus the variation with respect to  $q_n$  (at constant entropy  $S$ ) yields instead of (4.7)

$$\begin{aligned} \frac{d}{dt} \sum_m B_{nm} \dot{q}_m - \frac{1}{2} \sum_{mm'} \frac{\partial B_{mm'}}{\partial q_n} \dot{q}_m \dot{q}_{m'} \\ = F_n^{\text{equ}} - \sum_\alpha \frac{\partial \varepsilon_\alpha^{(s)}}{\partial q_n} \{ n_\alpha(t) - n_\alpha^{\text{equ}}(\mathbf{q}, t) \} \end{aligned}$$

where the equilibrium force

$$F_n^{\text{equ}} = - \left( \frac{\partial}{\partial q_n} \langle H \rangle_{\text{equ}}^0 \right)_S$$

at temperatures larger than 2 MeV may be approximated by the liquid-drop energy. Note that any  $\dot{\mathbf{q}}$ -dependence of the two-body matrix elements has been ignored.