Mathematical Foundations of Quantum Mechanics

GEORGE W. MACKEY

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$$\mathbf{f}_{\mathbf{i}}(\mathbf{i}) = \mathbf{e}_{\mathbf{i}} \int_{\mathbf{R}}^{\mathbf{i}} \left[\frac{\partial L_{\mathbf{i}}}{\partial \mathbf{x}} + \frac{\partial L_{\mathbf{i}}}{\partial \mathbf{y}} + \frac{\partial L_{\mathbf{i}}}{\partial \mathbf{z}} \right]^{2} d\mathbf{x} d\mathbf{y} d\mathbf{z}$$

$$+ \mathbf{e}_{\mathbf{i}} \int_{\mathbf{R}}^{\mathbf{i}} \left[\left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{x}} + \frac{\partial R_{\mathbf{i}}}{\partial \mathbf{x}} \right)^{2} + \left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} + \frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} \right)^{2} + \left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} + \frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} \right)^{2} + \left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} + \frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} \right)^{2} + 2 \left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{x}} \right)^{2}$$

$$+ 2 \left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{y}} \right)^{2} + 2 \left(\frac{\partial R_{\mathbf{i}}}{\partial \mathbf{z}} \right)^{2} \right] d\mathbf{x} d\mathbf{y} d\mathbf{z}$$

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