The Mathematical Language of Quantum Theory
Teiko Heinosaari and Mario Ziman
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ERRATA
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- page 13, equation above Eq.(1.21):
  The equality should be $\leq$.

- page 14, Example 1.19, 3rd displayed equation:
  $\sum_{j=0}^{\infty} |\zeta_j|^2$ should be $\sqrt{\sum_{j=0}^{\infty} |\zeta_j|^2}$.

- page 59, 1st line:
  ... but $\xi_\epsilon \notin \mathcal{S}(\mathcal{H})$. ... should be ... but ξ_ϵ is not positive. ...

- page 59, Proof of Proposition 2.18, 3rd line:
  Sentence "In particular, $\xi_\epsilon \notin \mathcal{S}(\mathcal{H})$." should be removed.

- pages 68-69 (proof of Prop. 2.30) and also pages 74-75:
  Strictly speaking, to say linearity (for the extensions), one has to show also that
  $\tilde{E}(cT) = c\tilde{E}(T)$ for $c \in C$ (in addition to $\tilde{E}(T + S) = \tilde{E}(T) + \tilde{E}(S)$). This
  follows directly from Eq.(2.20).

- page 103, the first displayed equation:
  It should read

$$P_\psi = |\psi\rangle\langle\psi| = \sum_{j,k=1}^{n} \sqrt{p_j p_k} |\eta_j\rangle\langle\eta_k| \otimes |\phi_j\rangle\langle\phi_k|.$$

- page 112, Example 3.11, 1st line under Eq.(3.7):
  ... satisfy the relation $\vec{m}_j \cdot \vec{m}_k = -\frac{1}{2}$ for $j \neq k$ ... should be ... satisfy the
  relations $\vec{m}_j \cdot \vec{m}_k = -\frac{2}{9}$ for $j \neq k$ and $\|\vec{m}_k\| = \frac{2}{3}$ ...

- page 145, displayed Eq. above Eq.(3.43):
  $\frac{2}{3}$ should be $\frac{3}{2}$

- page 147, 4th line from bottom:
  Notation is not properly introduced. In fact, $E_{\vec{j}} = \mathsf{A}(\vec{j}) = \mathsf{A}(j_1) \otimes \cdots \otimes \mathsf{A}(j_n)$,
  $f_j = f(j)$ and $p_j = p(j)$.

- page 166, Example 3.83, last reference:
  [5] should be [4]

- page 181, 2nd line of the first displayed equation:
  tr_B should be $\mathrm{tr}_{\mathrm{anc}}$

- page 181, 2nd displayed equation:
  tr_B should be $\mathrm{tr}_{\mathrm{anc}}$

- page 192, Proof of Proposition 4.27, beginning of the 7th line:
  $\sum_s$ should be $\sum_s \sum_{j,j'}$

- page 208, right-hand side of Eq.(4.49): indexes,
  $|\varphi_j \otimes \varphi_k\rangle\langle\varphi_j \otimes \varphi_k|$ should be $|\varphi_j \otimes \varphi_j\rangle\langle\varphi_k \otimes \varphi_k|$

- page 268, Example 6.12:
  In the first displayed equation $\pm$ is missing on the right-hand side.

- page 288, line before eq (6.34):
  $\mathcal{R}$ should be $\mathbb{R}$