

**CORRECTIONS ON
ROTATION C^* -ALGEBRAS AND ALMOST MATHIEU OPERATORS**

FLORIN-PETRE BOCA

Page 12, line -1: is isomorphic to A_α . \Rightarrow is isomorphic to A_α when $\alpha \notin \mathbb{Q}$.

Page 13, line -14: $h_S = \frac{1}{4}(\lambda_x + \lambda_x^* + \lambda_y + \lambda_y^* + \lambda_z + \lambda_z^*) \Rightarrow h_S = \frac{1}{6}(\lambda_x + \lambda_x^* + \lambda_y + \lambda_y^* + \lambda_z + \lambda_z^*)$.

Page 24, line -13:
$$\begin{pmatrix} 0 & 1 & 0 & \dots & 0 & 0 \\ 0 & 0 & 1 & \dots & 0 & 0 \\ \vdots & \vdots & \vdots & \ddots & \vdots & \vdots \\ 0 & 0 & 0 & \dots & 0 & 1 \\ \iota & 0 & 0 & \dots & 0 & 0 \end{pmatrix} \Rightarrow \begin{pmatrix} 0 & 1 & 0 & \dots & 0 & 0 \\ 0 & 0 & 1 & \dots & 0 & 0 \\ \vdots & \vdots & \vdots & \ddots & \vdots & \vdots \\ 0 & 0 & 0 & \dots & 0 & 1 \\ \iota & 0 & 0 & \dots & 0 & 0 \end{pmatrix}^t$$

Page 25, line 13: $a = \sum_{j,k=1}^q e_{j,k} E(e_{k,j} a) \Rightarrow a = q \sum_{j,k=1}^q e_{j,k} E(e_{k,j} a)$

Page 31, line 11: operators on \mathfrak{H} \Rightarrow self-adjoint operators on \mathfrak{H}

Page 36, line -3: $\Delta_{\frac{p}{q}}(E, \lambda) = D_{\frac{p}{q}}\left(E, \lambda, \frac{1}{2q}\right) \Rightarrow \Delta_{\frac{p}{q}}(E, \lambda) = D_{\frac{p}{q}}\left(E, \lambda, \frac{1}{4q}\right)$.

Page 73, formula (7.9): $\dots = E_0 + \mu \frac{\langle BP_\mu \phi_\pm, \phi_\pm \rangle}{\langle P_\mu \phi_\pm, \phi_\pm \rangle} \Rightarrow \dots = E_1 + \mu \frac{\langle BP_\mu \phi_\pm, \phi_\pm \rangle}{\langle P_\mu \phi_\pm, \phi_\pm \rangle}$.

Page 77, line 2: $\sum_{k=0}^{q-1} x_k(\lambda) = -\sum_{k=0}^{q-1} y_k(\lambda) = 2 - \lambda \Rightarrow \sum_{k=0}^{q-1} (-1)^k x_k(\lambda) = -\sum_{k=0}^{q-1} (-1)^k y_k(\lambda) = 2 - \lambda$

Page 78, formulas (7.16) and (7.17): $\sum_{k=0}^{q-1} x_k(\lambda) \Rightarrow \sum_{k=0}^{q-1} (-1)^k x_k(\lambda)$

Page 84, line 10: $|\text{spec}(H_{\frac{p}{q}, \lambda}^p)| \Rightarrow \leq |\text{spec}(H_{\frac{p}{q}, \lambda}^p)|$

Page 86, line -1: $= \bigcup_{z \in \mathbb{T}^2} \text{spec}(\pi_z(T_{\frac{p}{q}, \lambda}^p)) = \text{spec}(T_{\frac{p}{q}, \lambda}^p) \Rightarrow = \bigcup_{z \in \mathbb{T}^2} \text{spec}(\pi_z(T_{\frac{p}{q}, \lambda}^p)) \subset \text{spec}(T_{\frac{p}{q}, \lambda}^p)$.

Page 90, line 12: Assume now that $\lambda > 1$. \Rightarrow Assume now that $\lambda > 1$ and denote $\mathbb{T}_\lambda = \lambda \mathbb{T}$.

Page 99, line -7: $\tau(|z1_M - a|) = \log \Delta(z1_M - a) = \dots \Rightarrow \tau(\log |z1_M - a|) = \log \Delta(z1_M - a) = \dots$

Page 105, line -9: $\Phi_1, \Phi_2 \in \mathcal{S}(M) \Rightarrow \Phi_1, \Phi_2 \in \mathcal{S}(G)$

Page 122, line 10: $\sum_{\substack{m_1 \in \{-1, 0, 1\} \\ m_2 \in \mathbb{Z}}} \frac{1}{\alpha} \langle \sqrt{\xi_1}, \sqrt{\xi_1} \rangle_{\Gamma_1} (m_1 \varepsilon_1 + m_2 \varepsilon_2) \Rightarrow \sum_{\substack{m_1 \in \{-1, 0, 1\} \\ m_2 \in \mathbb{Z}}} \frac{1}{\alpha} \langle \sqrt{\xi_1}, \sqrt{\xi_1} \rangle_{\Gamma_1} (m_1 \varepsilon_1 + m_2 \varepsilon_2) U_2^{m_2} U_1^{m_1}$.

Page 124, line 14: Therefore \Rightarrow Therefore, assuming $R(\Gamma) = \Gamma$, we have

Page 127, line 8: $\sum_{n \in \mathbb{Z}} e^{\pi i n^2 \tau + 2\pi i n z} \Rightarrow \sum_{n \in \mathbb{Z}} e^{\pi i n^2 \tau + 2\pi i n z}$.