



Erratum to: Spectral Triple and Sinai–Ruelle–Bowen Measures

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We correct an error in the proof of Theorem (4.1).

The proof of Theorem (4.1) exploited the fact that the set of locally constant functions forms a dense sub algebra in the space of complex-valued continuous functions defined on the Julia set, \mathcal{J}_c , denoted by $\mathcal{C}(\mathcal{J}_c, \mathbb{C})$. We must have used the dense sub algebra of polynomial functions in stead of the locally constant functions. In particular, we re-write the paragraph following the Eq. (4.5) in the proof of Theorem (4.1).

Theorem 4.1 $(\mathcal{H}, \mathcal{A}, D_\varphi)$ is a spectral triple.

Let $f \in \mathcal{A} = \mathcal{C}(\mathcal{J}_c, \mathbb{C})$ be a polynomial function. We write $P(\mathcal{J}_c)$ for the set of all polynomials in \mathcal{J}_c . $P(\mathcal{J}_c)$ is a dense subalgebra in \mathcal{A} . Further, given any $\epsilon > 0$, there exists a $N \in \mathbb{Z}^+$ such that for any generic $z_1, z_2 \in \mathcal{J}_c$ and $n \geq N$, we have

$$|f(\{P_c^{-n}z_1\} \cap C) - f(\{P_c^{-n}z_2\} \cap C)| < \epsilon, \quad \forall C \in \mathfrak{P}_{(n)}.$$

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