The proof of Proposition 1.7 (Proposition 5.11 in the arXiv version) contains the following incorrect statement: "By topological transitivity and compactness, there is $\tau \in \mathbb{N}$ such that for every $x, y \in X$ there is $t \in\{0,1, \ldots, \tau\}$ with $d\left(f^{t} x, y\right)<\rho$ ". This can be seen to be false by taking $x$ to be a periodic point (or any other point whose orbit is not dense). The corrected proof should read as follows (edits are marked in blue).

By Lemma 1.2.4.1, it suffices to show that for every sufficiently small $\delta>0$, there are $\chi \in(0,1)$ and $\tau \in \mathbb{N}$ such that for every $\left(x_{1}, n_{1}\right),\left(x_{2}, n_{2}\right) \in X \times \mathbb{N}$, there are $t \in\{0,1, \ldots, \tau\}$ and $y \in X$ such that (1.2.4.7) holds. To prove this, let $\delta>\rho>\rho^{\prime}>0$ be such that

- every $x \in X$ has local stable and unstable leaves $W_{\delta}^{s}(x)$ and $W_{\delta}^{u}(x)$ with diameter $<\delta$, and
- for every $x, y \in X$ with $d(x, y)<\rho$, the intersection $W_{\delta}^{s}(x) \cap W_{\delta}^{u}(y)$ is a single point, which lies in $X$, and finally,
- for every $x, y \in X$ with $d(x, y)<\rho^{\prime}$, this point of intersection actually lies within $\rho / 2$ of both $x$ and $y$.
By topological transitivity and compactness, there is $\tau \in \mathbb{N}$ such that for every $x, y \in X$ there are $z \in B\left(x, \rho^{\prime}\right)$ and $t \in\{0,1, \ldots, \tau\}$ with $d\left(f^{t} z, y\right)<$ $\rho / 2$; by the third property above, we have $W_{\rho / 2}^{u}(x) \cap W_{\rho / 2}^{s}(z) \neq \emptyset$.

Using this fact, given $\left(x_{1}, n_{1}\right),\left(x_{2}, n_{2}\right) \in X \times \mathbb{N}$, we can let $t \in\{0,1, \ldots, \tau\}$ and $z, q \in X$ be such that $\{q\}=W_{\rho / 2}^{u}\left(f^{n_{1}}\left(x_{1}\right)\right) \cap W_{\rho / 2}^{s}(z)$ and $d\left(f^{t}(z), x_{2}\right)<$ $\rho / 2$, as shown in the picture. Then $f^{t}(q) \in W_{\rho / 2}^{s}\left(f^{t}(z)\right)$, so $d\left(f^{t}(q), x_{2}\right)<\rho$, and we conclude that $W_{\delta}^{u}\left(f^{t}(q)\right) \cap W_{\delta}^{s}\left(x_{2}\right) \neq \emptyset$. Writing $f^{t}(r) \in X$ for the point of intersection, we see that $r \in W_{\delta}^{u}(q) \subset W_{\delta+\rho / 2}^{u}(x)$. Putting $y=f^{-n_{1}}(r)$, we see that $y$ satisfies (1.2.4.7) with $\delta_{1}=\delta+\rho / 2$ and $\delta_{2}=\delta$, and thus Lemma 1.2.4.1 proves the proposition.


The same incorrect statement appears in the proof of Proposition 1.8 (arXiv Proposition 5.13), with $\delta$ in place of $\rho$. After (1.2.4.10) (arXiv (5.20)), the proof should read as follows.

As in the previous proposition, we use the following consequence of toological transitivity and compactness: given $\delta>0$, there is $\tau \in \mathbb{N}$ such that for every $x, y \in X$ there are $z \in B(x, \delta / 2)$ and $t \in\{0,1, \ldots, \tau\}$ with $f^{t}(z) \in B(y, \delta / 2)$. Now given $\left(x_{1}, n_{1}\right),\left(x_{2}, n_{2}\right) \in X \times \mathbb{N}$, there are $z \in B\left(f^{n_{1}}\left(x_{1}\right), \delta / 2\right)$ and $t \in\{0,1, \ldots, \tau\}$ such that $f^{t}(z) \in B\left(x_{2}, \delta / 2\right)$, and thus (1.2.4.10) gives

$$
f^{t}\left(f^{n_{1}} B_{n_{1}}\left(x_{1}, \delta\right)\right) \supset f^{t} B\left(f^{n_{1}} x_{1}, \delta\right) \supset f^{t}(B(z, \delta / 2)) \supset B\left(f^{t} z, \delta / 2\right) \ni x_{2} .
$$

The last sentence of the proof remains the same.

