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CORRECTION TO "A NOTE ON COMPLETELY METRIZABLE SPACES"

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Josef Chaber has kindly pointed out that the proof of Theorem 1.3 must be modified, since, with the given construction, the claim that the collection $\mathcal{F}$ in the last paragraph is a filter base cannot be justified. The required modification comes at the beginning of paragraph two: Instead of invoking Lemma 2.1 to independently order each $\mathcal{U}_n$, one invokes Proposition 4.1 to obtain a complete sieve $(\{U_\alpha : \alpha \in A_n\}, \pi_n)$ on X satisfying 4.1(c). The remainder of the proof is then essentially correct; one need only verify that, if $\alpha_n \in A_n$ is as in the last paragraph, then $\pi_n(\alpha_{n+1}) = \alpha_n$ for all n.

To verify this equality, one first checks that, if $\alpha \in A_n$ and $\beta \in \pi_n^{-1}(\alpha)$, then $V_\beta \subset V_\alpha$ (hence $W_\beta \subset W_\alpha$) and $D_\beta \subset D_\alpha$, and therefore $E_\beta \subset E_\alpha$. In particular, $E_{\alpha_{n+1}} \subset E_{\pi_n(\alpha_{n+1})}$, so y is in both $E_{\pi_n(\alpha_{n+1})}$ and E_{α_n}. But, by the third paragraph of the proof, we have $E_\alpha \cap E_{\alpha'} = \varnothing$ whenever $\alpha, \alpha' \in A_n$ with $\alpha \neq \alpha'$, and thus $\pi_n(\alpha_{n+1}) = \alpha_n$.

E. Michael, *A note on completely metrizable spaces*, Proc. Amer. Math. Soc. **96** (1986), 513–522.

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