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COMMENTATIONES MATHEMATICAE UNIVERSITATIS CAROLINAE 18,1 (1977)

CORRECTION TO MY PAPER: Remark on locally fine spaces, Comment. Math. Univ. Carolinae 16(1975), 501-504. Jan PELANT, Praha

In his review [MR 52#4242], J.R. Isbell pointed out a mistake in the main proof of my paper. The false step of this proof really begins on the page 503_9 by "We may suppose ...". Fortunately, it is not difficult to improve the proof using a finite set J instead the one point set $\{i_0\}$ and to remove an oversimplification at that. The corrected part reads as follows:

"We may suppose that \mathcal{W} is of the form $\{i_0 \in Jc \text{ m, card } J < \omega_0; \ \mathcal{R} \in \mathcal{U} \text{ such that } \forall f: X \longrightarrow \mathcal{P} (f(x)) \Rightarrow x \text{ for each } \mathcal{C} \in \mathcal{C} \text{ m.} \}$

 $\begin{array}{l} <\omega_{0}; \ \mathcal{R} \in \mathcal{U} \ \ \text{such that} \ \ \forall \ f \colon \mathbb{X} \longrightarrow \mathcal{P} \ \ (f(\mathbb{X}) \ni \mathbb{X} \ \text{for each} \\ \mathbb{X}) \ \exists \ \mathbb{R} \in \mathcal{R} \ \ \text{card} \ \ f(\mathbb{R}) \geq \omega_{0}) \colon \ \mathcal{W} = \{ \underset{j \in \mathbb{J}}{\overset{\circ}{\longrightarrow}} \pi_{j}^{-1}(\mathbb{R}^{j}) \ \cap \\ \\ \vdots \in \mathbb{I}(\{\mathbb{R}^{j}\}_{j \in \mathbb{J}}) \ \ \pi_{i}^{-1}(\mathbb{T}_{i}) \ | \ \mathbb{R}^{j} \in \mathcal{R} \ \ \text{for each} \ \ j \in \mathbb{J}; \ \text{for each} \\ \mathbb{T}_{i} \in \mathcal{T}(\{\mathbb{R}^{j}\}_{j \in \mathbb{J}}) \ \ \vdots \ \ \pi_{i}^{-1}(\mathbb{R}^{j}) \ | \ \mathbb{R}^{j} \in \mathcal{R} \ \ \text{and} \ \ \mathbb{I}(\{\mathbb{R}^{j}\}_{j \in \mathbb{J}}) \ \ \text{is a finite} \\ \mathbb{R}^{j} : \ \ j \in \mathbb{J} \ \ \text{on} \ \ \mathbb{R}^{j} : \ \$

subset of m]. Choose a mapping F: $X^m \longrightarrow \mathcal{X}$ such that $st(y, \mathcal{W}) \subset F(y)$ for each $x \in X^m$. Let us observe that $I(\{R^j\}_{j \in J}) \subset \{K([F(y)]) \mid y \in \mathcal{F}_{g \in J} \cap \mathcal{F}_{g \in J} \cap$

Finally, let us remark that the fact that the Ginsburg-Isbell derivative of a separable metrizable uniform space forms a uniformity cannot contradict our theorem because each separable uniform space has a point-finite base (see e.g.: G. Vidossich: Uniform spaces of countable type, Proc. Amer. Math. Soc. 25(1970), 551-553).

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(Oblatum 4.3. 1977)