

## Erratum to “More on $\lambda$ -closed sets in topological spaces” Revista Colombiana de Matemáticas 41 (2007) 2 355–369

Errata sobre “Más sobre conjuntos  $\lambda$ -cerrados en espacios  
topológicos” Revista Colombiana de Matemáticas 41 (2007) 2  
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Since, from Lemma 2.1 of this article it follows that  $\lambda Cl(x) = Cl(x) \cap Ker(x)$  for all  $x \in X$ . Therefore  $x \in \lambda Cl(\{y\})$  if and only if  $y \in \lambda Cl(\{x\})$ . This means that **every topological space is  $\lambda$ - $R_0$** .

In [3], Ganster et al. have shown that the notions  $\lambda$ - $R_0$ ,  $\lambda$ - $T_0$ ,  $\lambda$ - $T_1$  and  $\lambda$ - $T_2$  are equivalent. Now if we combine these equivalences with facts from [1], then  $\lambda$ - $R_0 = \lambda$ - $T_0 = \lambda$ - $T_1 = \lambda$ - $T_2 = \lambda$ - $D_0 = \lambda$ - $D_1 = \lambda$ - $D_2$ . These facts shows the following concerning section 3 of [2]:

- (1) Theorem 3.3 is correct but also the converse. Therefore the statements of examples 3.4, 3.5 and 3.6 are not correct.
- (2) Theorem 3.11 shows that  $T_0 = \lambda$ - $R_0 = \lambda$ - $T_0 = \lambda$ - $T_1 = \lambda$ - $T_2 = \lambda$ - $D_0 = \lambda$ - $D_1 = \lambda$ - $D_2$ .
- (3) The Diagram in Remark 3.13 is partly correct since every item in the diagram is equivalent with each other. Part (2) and Example 3.15 are therefore not correct.

- (4) The notion  $\lambda$ -symmetric in Definition 13 is equivalent with  $\lambda$ - $R_0$ ,  $\lambda$ - $T_0$ ,  $\lambda$ - $T_1$ ,  $\lambda$ - $T_2$ ,  $\lambda$ - $D_0$ ,  $\lambda$ - $D_1$  and  $\lambda$ - $D_2$ . This means that parts (ii) and (iii) in Theorem 3.21 and also Theorem 3.22 are not correct.

### References

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- [2] CALDAS, M., JAFARI, S., AND NAVALAGI, G. More on  $\lambda$ -closed sets in topological spaces. *Revista Colombiana de Mat.* 41, 2 (2007), 355–369.
- [3] GANSTER, M., JAFARI, S., AND STEINER, M. Some observations on  $\lambda$ -closed sets. Submitted.

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