THE DEFINITION OF DISTANCE AND DIAMETER IN FUZZY SET THEORY (ERRATA-CORRIGE)

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As pointed out by O.Keleve in the Zbl.Math. 594.54004 (1987), Proposition 2 of [1] is not true with respect the proposed definition of metricelly closed fuzzy sets. This induces to modify Definition 3 by restricting the equivalence

$$f_0^{\alpha} \in f \iff d(f_0^{\alpha}, f)=0$$

uniquely to the fuzzy points f_0^{α} with $\alpha \leq \bigvee\{f(x)/x \in X\}$. This assures that the proof of Proposition 2 work well.

[1] G.Gerla and R.Volpe, The definition of Distance and Diameter in Fuzzy Set Theory, BUSEFAL 25 (1986) 44-51.