Some remarks on the Metrizability of F-metric spaces

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Abstract: In this talk, we will show that the newly introduced $\mathcal{F}$-metric space, introduced by Jleli and Samet in [1], is metrizable. Also, we deduce that the notions of convergence, Cauchy sequence, completeness due to Jleli and Samet for $\mathcal{F}$-metric spaces are equivalent to that of usual metric spaces. Moreover, we show that the Banach contraction principle in the context of $\mathcal{F}$-metric spaces is a direct consequence of its standard metric counterpart.

References

[1] M. Jleli and B. Samet. On a new generalization of metric spaces. *J. Fixed Point Theory Appl.*, 20(3):128, (2018).