

Erratum in "Sampling Theorems for signals form the Union of Finite Dimensional Subspaces"

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In the paper : T. Blumensath and M. E. Davies, "Sampling Theorems for signals form the Union of Finite Dimensional Subspaces", to appear in IEEE Transactions of Information Theory, on page 4, the last paragraph in the second column should read:

"The restricted isometry constant bounds the amount by which the length of any K -sparse vector is changed by Φ . If we normalise Φ , such that both inequalities in (6) are tight, then, if $\delta_{2K} = 0$, then there are vectors for which no change takes place. In order for each k -sparse signal to admit a one to one map, it is therefore necessary that there exist a normalisation of Φ such that $\delta_{2K} < 1$ because"