

1135-VM-224 **Mutaz Mohammad*** (mutaz.mohammad@zu.ac.ae), Abu Dhabi, United Arab Emirates. *Gibbs Phenomenon in tight framelet expansions.*

we explore several ways to investigate the Gibbs phenomenon in tight framelet representations. We present results concerning the Gibbs phenomenon by expanding functions using the quasi-affine system. This system is generated by the Haar tight framelets. More precisely, we investigate the existence of Gibbs phenomenon in the truncated expansion of a given function which is expanded by some tight framelet representation. The tight frame method is essentially a generalized wavelet based method. It provides various construction methods to expand functions in $L^2(R)$. (Received August 13, 2017)