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Michal Odyniec* (m.odyniec@ieee.org), 161 Vasco Rd, Livermore, CA 94550. *Uncertainty analysis in signal detection.*

We are concerned with measurements of relative timing of irregularly and differently shaped signals with compact support. A (believed to be new) definition of the time reference, applicable to smooth but otherwise arbitrary pulses, results in the time uncertainty estimates that are much smaller what one might expect with a casual analysis. These estimates are easily calculable given the noise level of the recording device and the pulse shape. (Received February 03, 2016)