



SUBBAND ADAPTIVE EQUALISER TRACKING FOR FRACTIONALLY-SAMPLED FADING BROADBAND MIMO CHANNELS (MonPmPO1)

✳ **Author(s) :** [Stephan Weiss](#) (University of Southampton, United Kingdom)
[Viktor Bale](#) (University of Southampton, United Kingdom)

✳ **Abstract :** This paper demonstrates the performance of a subband adaptive multiple-input multiple-output (MIMO) equaliser tracking the inverse of a Doppler-filtered Rayleigh-fading broadband channel. The subband adaptive equaliser is shown to outperform the fullband equivalent for channels with a high spectral dynamic range and long MMSE equaliser response in terms of tracking MSE and computational cost.