2022 Asilomar Conference on Signals, Systems, and Computers High-Resolution Spectral Analysis and Signal Segregation Using the Polyphase Channelizer Richard Bell, Radhika Mathuria, fred harris, Peter Gerstoft, Dinesh Bharadia







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Summary: The polyphase channelizer enables the resolution of closely spaced signals at large dynamic ranges. It also supports automatic classification systems by generating isolated time domain realizations of boxed regions of the channogram for further processing by classification algorithms.

Future Work: Combining the polyphase channelizer with cyclostationary techniques for improved signal detection and classification

