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Sarah E Anderson* (sarah5@g.clemson.edu). *Multipoint kernels for polar coding.*

Polar coding is a breakthrough method for an explicit construction of symmetric capacity achieving codes for discrete memoryless channels with low encoding and decoding complexities. The construction relies on a matrix called the kernel, and the exponent of the kernel provides an estimate of the decoding error probability. In this talk, we discuss the role of multipoint codes in polar coding and associated exponents. (Received September 16, 2014)