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Jeremy J Becnel* (becneljj@sfasu.edu), Department of Mathematics, Stephen F. Austin State University, Nacogdoches, TX 75965. *The Gauss Radon Transform in Infinite Dimensions.*

We describe the Gauss Radon transform in infinite dimensions. We provide a support theorem in this setting and then develop several means of recovering a function from the function's Gauss Radon transform. (Received September 08, 2017)