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Irina Holmes*, irina.c.holmes@gmail.com. *An Inversion Procedure for the Gaussian Radon Transform for Banach Spaces.*

The Gaussian Radon transform is an infinite-dimensional generalization of the classical Radon transform to real separable infinite-dimensional Banach spaces within the framework of abstract Wiener spaces. We prove a disintegration theorem leading to an expression of the Gaussian Radon transform as a conditional expectation and then prove an inversion procedure involving the Segal-Bargmann transform. (Received August 29, 2013)