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Elena Ournycheva*, 300 Campus Drive, Bradford, PA 16701. *Fractional integrals of Erdélyi-Kober type and Radon transforms on Grassmann manifolds.*

We establish connection between Radon transforms of invariant functions on Grassmann manifolds and newly introduced Erdélyi-Kober type fractional integrals associated to the cone of positive definite symmetric matrices. This generalizes formulae of Grinberg-Rubin. (Received February 02, 2008)