Byoung Soo Kim* (mathkbs@seoultech.ac.kr), School of Liberal Arts, Seoul National University of Science and Tech, Seoul, 139-743, South Korea, and Bong Jin Kim (bjkim@daejin.ac.kr) and Il Yoo (iyoo@yonsei.ac.kr). A change of scale formula for a function space integral on $C_{a,b}[0,T]$. Preliminary report.

Cameron and Storvick discovered change of scale formulas for Wiener integrals of functionals in a Banach algebra $S$ on classical Wiener space. Yoo and Skoug extended these results for functionals in the Fresnel class $\mathcal{F}(B)$ and in a generalized Fresnel class $\mathcal{F}_{A_1,A_2}$ on abstract Wiener space. We establish a relationship between a function space integral and a generalized analytic Feynman integral on $C_{a,b}[0,T]$ for functionals in a Banach algebra $S(L^2_{a,b}[0,T])$. Moreover we obtain a change of scale formula for a functionspace integral on $C_{a,b}[0,T]$ of these functionals. (Received September 11, 2012)