TRACEABILITY OF POSITIVE INTEGRAL OPERATORS IN THE ABSENCE OF A METRIC

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ABSTRACT. We investigate the traceability of positive integral operators on $L^2(X, \mu)$ when X is a Hausdorff locally compact second countable space and μ is a non-degenerate, σ-finite and locally finite Borel measure. This setting includes other cases proved in the literature, for instance the one in which X is a compact metric space and μ is a special finite measure. The results apply to spheres, tori and other relevant subsets of the usual space $\mathbb{R}^m$.

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