A mapping theorem for Hilbert cube manifolds.


The author observes that every compact connected Hilbert cube manifold $M$ can be obtained from the Hilbert cube $Q$ by making identifications on a face of $Q$. This is proven by the same methods as for the finite-dimensional analogues. This observation is then used to extend previous results about measures on $Q$ to measures on $M$ [J. C. Oxtoby and the author, Pacific J. Math. 77 (1978), no. 2, 483–497; MR0510936]. For example, if $\mu$ and $\nu$ are two nonatomic, normalized, locally positive Borel measures on $M$, then there is a homeomorphism $h: M \to M$ such that $\mu(E) = \nu h(E)$ for every Borel set $E$ in $M$.

Donald Coram

References


Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

© Copyright American Mathematical Society 2018