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Fibrewise Measures and Milutin Mappings

We treat the notion of fibrewise measures as the natural expansion of measures from spaces to continuous maps. We characterize topologically mappings admitting atomless fibrewise measures and atomless, exact, fibrewise measures. We prove that the standard exact, atomless, fibrewise measure $\{m_y\}$, $m_y = d_y \times m$ where m is the Lebesgue measure on the Hilbert cube Q and d_y is Dirac measure on the first coordinate projection $p: Y \times Q \rightarrow Y$ where Y is a metric space, is the topologically unique exact, atomless, fibrewise measure having the universal property.

*This is a joint work with Sergei Ageev