## **Partial measures**

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## Abstract

We study  $\sigma$ -additive set functions defined on a hereditary subclass of a  $\sigma$ -algebra and taken values in the extended real line. Analogs of the Jordan decomposition theorem and the Radon-Nikodym theorem are obtained.

## **Keywords**

 $\sigma$ -algebra, Jordan decomposition theorem, Radon-Nikodym theorem, Set function