Nedra Belhaj Rhouma, Mounir Bezzarga Regular potentials of additive functionals in semidynamical systems

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Abstract: We consider a semidynamical system $(X, \mathcal{B}, \Phi, w)$. We introduce the cone \mathbb{A} of continuous additive functionals defined on X and the cone \mathcal{P} of regular potentials. We define an order relation " \leq " on \mathbb{A} and a specific order " \prec " on \mathcal{P} . We will investigate the properties of \mathbb{A} and \mathcal{P} and we will establish the relationship between the two cones.

Keywords: additive functional, excessive functions, regular potential, semidynamical system, specific order

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