

The Moderate Markov Dual Process

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Abstract

Let X be a Borel right process and m an excessive measure for X . Then there exists a moderate Markov process \widehat{X} in duality with X relative to m . In recent years in several situations \widehat{X} has been almost as useful as a strong Markov dual process. I shall discuss some of the basic properties of \widehat{X} . Its relation to h -transforms of X , its Ray-Knight compactification, and especially the potential theory of \widehat{X} excessive measures that are absolutely continuous with respect to m .