Balayage of Semi-Dirichlet Forms
Ze-Chun Hu and Wei Sun

Abstract. In this paper we study the balayage of semi-Dirichlet forms. We present new results on balayed functions and balayed measures of semi-Dirichlet forms. Some of the results are new even in the Dirichlet forms setting.

Department of Mathematics, Nanjing University, Nanjing, 210093, China
e-mail: huzc@nju.edu.cn

Department of Mathematics and Statistics, Concordia University, Montreal, H3G 1M8
e-mail: wsun@mathstat.concordia.ca

Received by the editors September 23, 2010; revised March 23, 2011.
Published electronically August 15, 2011.
We are grateful to the financial support of NNSFC (Grant No. 10801072) and NSERC (Grant No. 311945-2008).
AMS subject classification: 31C25, 60J45.
Keywords: balayage, semi-Dirichlet form, potential theory.