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Nonadiabatic exciton dynamics in conjugated polymers ADAM WILLARD, University of Texas, Austin, PETER ROSSKY — The results of mixed quantum/classical simulations of the nonadiabatic excited state dynamics of sexithiophene and the C60-sexithiophene interface are presented. The model is capable of describing the photogeneration and subsequent time-evolution of excitons in conjugated polymers at model bulk heterojunction interfaces. The effect of chain length and electric field on exciton mobility is discussed for both single-chain and π -stacked sexithiophene oligomer. In addition the dynamics of exciton dissociation at the C60-sexithiophene interface are described.

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