## Abstract Submitted for the APR06 Meeting of The American Physical Society

Study of CP violation in mixing with partially reconstructed  $D^{*-}\ell^+\nu$  events ELISA MANONI, University of Perugia and INFN Sezione di Perugia, BABAR COLLABORATION — We present a simultaneous measurement of the neutral B-meson lifetime difference  $\Delta\Gamma$  and of the parameter |q/p|, relative to the CP violation in B mixing, using  $D^{*-}\ell^+\nu$  events. The semileptonic final state is partially reconstructed, i.e. only the slow pion from  $D^{*-}$  decay and the lepton are used. The flavour of the other B is determined by means of lepton tagging. The measurement is performed using a fit to the proper time difference distribution of the two mesons on a sample of 240 million  $\Upsilon(4S) \to B\bar{B}$  events, collected by the BaBar detector at the PEP-II asymmetric-energy B factory.

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