

Abstract Submitted
for the NWS07 Meeting of
The American Physical Society

Counting B Mesons at BaBar GRANT MCGREGOR, University of British Columbia, THE BABAR COLLABORATION — The primary goals of the BaBar Collaboration are to probe the Standard Model of Particle Physics through high precision studies of Charge-Parity (CP) violation and rare B meson decays. The BaBar detector is located at the Stanford Linear Accelerator Center. To date, we have recorded over 300 million B meson decays. With such high statistics in the study of B decays and CP violation, it is of utmost importance to have an understanding of precisely how many B mesons are produced and the uncertainties in this number. This is because the B meson count is used as a normalization in the vast majority of B-physics analyses with BaBar. We report on recent work to understand in detail the number of B mesons recorded and to improve the efficiency and systematic uncertainties in B meson counting.

Janis McKenna
University of British Columbia

Date submitted: 18 Apr 2007

Electronic form version 1.4