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Computing for Belle

Monday 27 September 2004 11:00 (30 minutes)

The Belle experiment operates at the KEKB accelerator, a high
luminosity asymmetric energy e+ e- machine. KEKB has achieved the
world highest luminosity of 1.39 times 10ˆ34 cm-2s-1. Belle
accumulates more than 1 million B Bbar pairs in one good day.
This corresponds to about 1.2 TB of raw data per day. The amount of
the raw and processed data accumulated so far exceeds 1.4 PB.
Belle's computing model has been a traditional one and very
successful so far. The computing has been managed by minimal number
of people using cost effective solutions. Looking at the future,
KEKB/Belle plans to improve the luminosity to a few times 10ˆ35 cm-
2s-1, 10 times as much as we obtain now. This presentation
describes Belle's efficient computing operations, struggles to
manage large amount of raw and physics data, and plans for
Belle computing for Super KEKB/Belle.

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