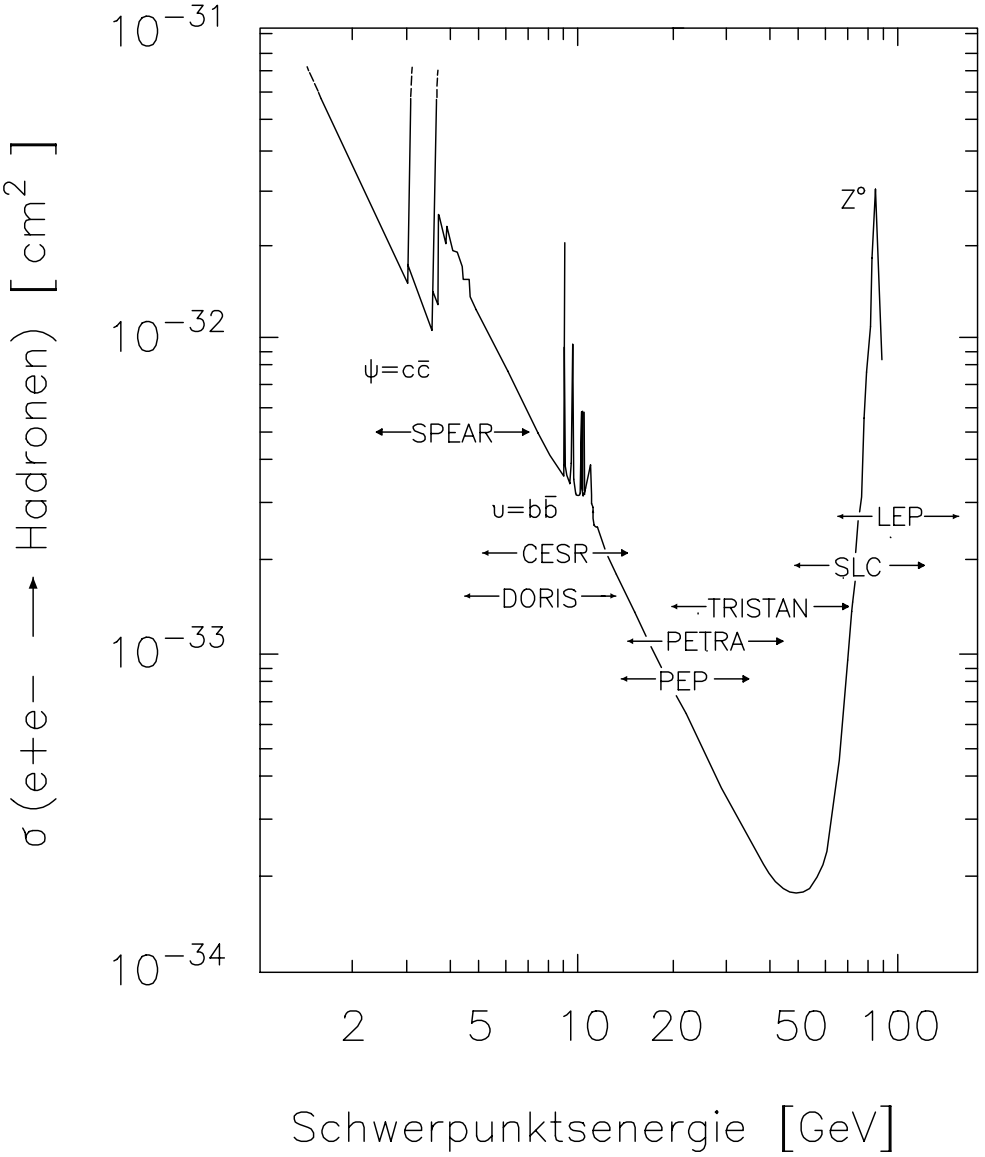
2.2 Verletzung der CP-Symmetrie in B-Meson-Zerfällen

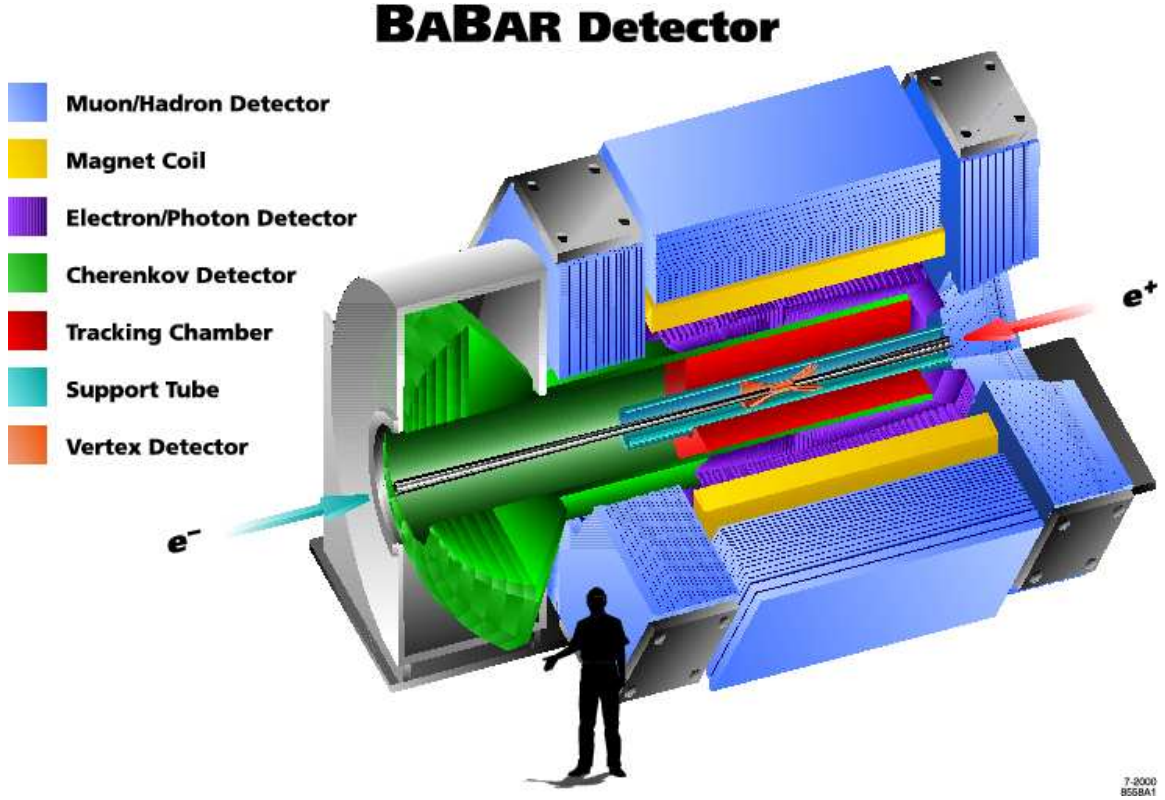
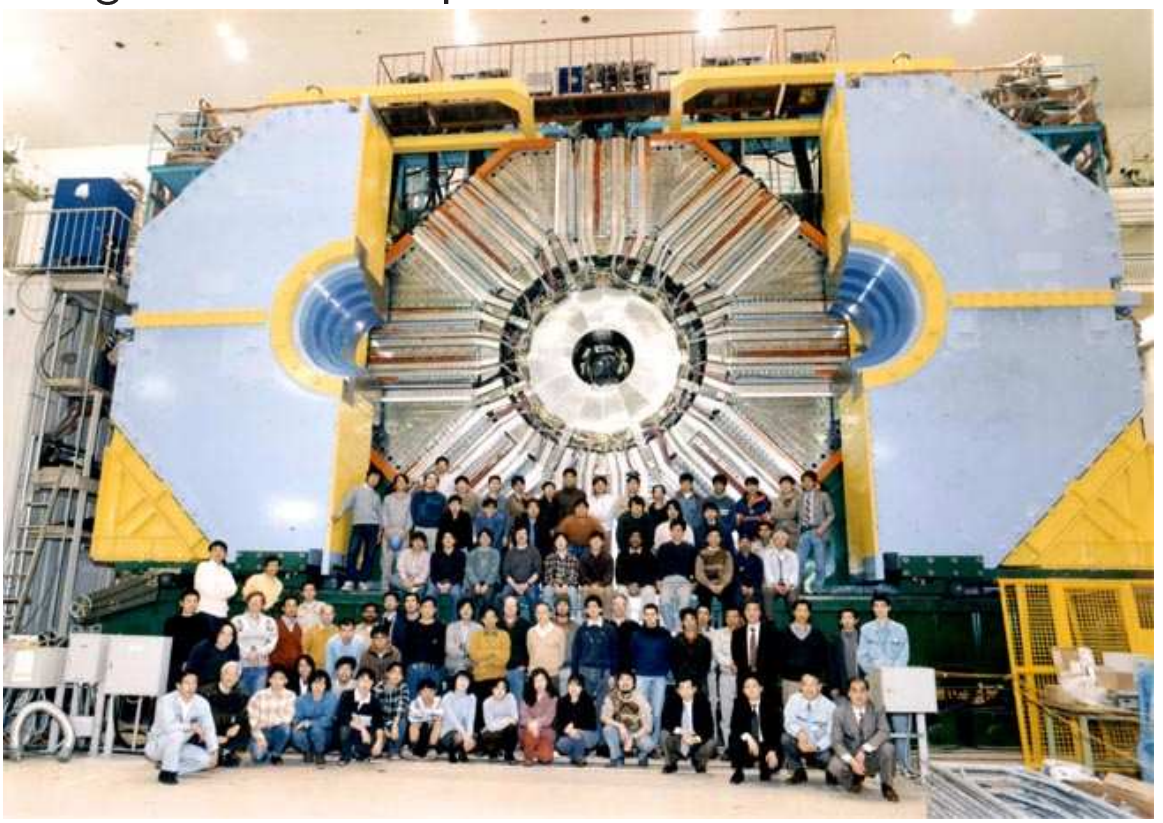
2.2.1 B-Meson-Produktion



Exp.	$\sigma(b\bar{b})$	$N_{B\overline{B}}$	Reaktion
LEP	7 nb	10^6/Exp.	$e^+e^- \xrightarrow{91\ \mathrm{GeV}} Z^0 \xrightarrow{4.5\%} b\bar{b} \to B\overline{B}' + X$
CLEO	1 nb	$1.0 \cdot 10^7$	$e^+e^- \xrightarrow{10.6\ \mathrm{GeV}} \Upsilon(4S) \xrightarrow{100\%} B^0_d\overline{B^0_d}, B^+B^-$
BaBar	1 nb	$1.5 \cdot 10^7$	$e^+e^- \xrightarrow{10.6\ \mathrm{GeV}} \Upsilon(4S) \xrightarrow{100\%} B^0_d\overline{B^0_d}, B^+B^-$
BELLE	1 nb	$0.6 \cdot 10^7$	$e^+e^- \xrightarrow{10.6\ \mathrm{GeV}} \Upsilon(4S) \xrightarrow{100\%} B^0_d\overline{B^0_d}, B^+B^-$
CDF	0.1 mb		$p\bar{p} \xrightarrow{1.8\ \mathrm{TeV}} b\bar{b} + X$

B-Meson-Fabriken

BaBar-Detektor am PEP II-Speicherring am SLAC, Kalifornien:



BELLE-Detektor am KEK-B-Speicherring am KEK Beschleunigerzentrum, Japan: