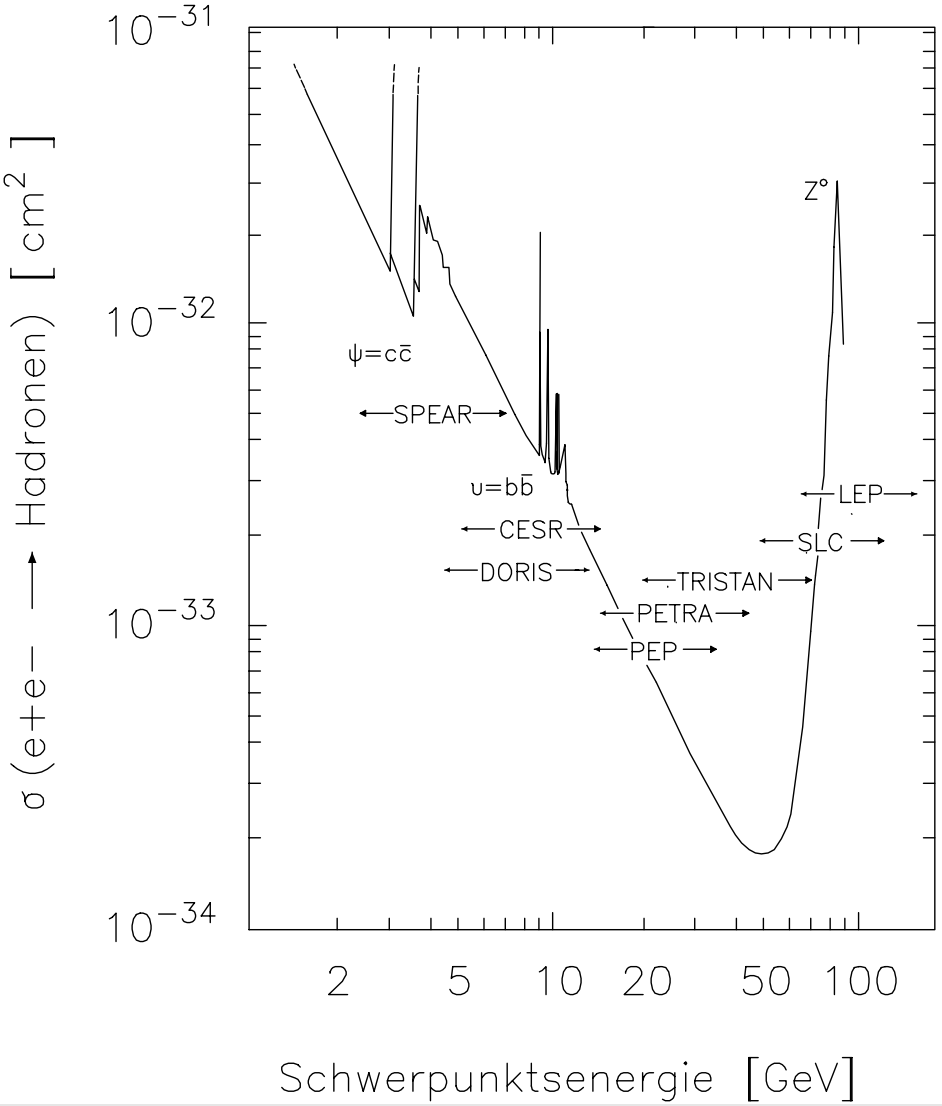
2.2 Verletzung der CP-Symmetrie in B-Meson-Zerfällen

2.2.1 B-Meson-Produktion



Exp.	$\sigma(b\bar{b})$	$N_{B\bar{B}}$	Reaktion
LEP	7 nb	10^6/Exp.	$e^+e^- \xrightarrow{91\ \text{GeV}} Z^0 \xrightarrow{4.5\%} b\bar{b} \to B\bar{B}' + X$
CLEO	1 nb	$1.0 \cdot 10^7$	
BaBar	1 nb	$1.1 \cdot 10^8$	$e^+e^- \xrightarrow{10.6\ \text{GeV}} \Upsilon(4S) \xrightarrow{100\%} B^0_d\overline{B^0_d}, B^+B^-$
BELLE	1 nb	$1.4 \cdot 10^8$	
CDF	0.1 mb	10^{11}/Jahr	$p\bar{p} \xrightarrow{1.8\ \text{TeV}} b\bar{b} + X$
LHC	0.5 mb	10^{12}/Jahr	$pp \xrightarrow{14\ \text{TeV}} b\bar{b} + X$