Beam Gas Background at Different ECM

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Table 1: Beam gas associated background hadron events at 6 ECM points, where $IPT = \int I \cdot P\,dt\ (mA \cdot torr \cdot second)$

$E_{cm}(GeV)$	2.6	3.2	3.4	3.55	4.6	5.0
N_{sep}	7	4	25	19	17	7
$IPT(10^{-4})$	3.1108	1.4776	6.0093	6.3765	4.7454	1.9186
$N_{sep}/IPT(10^{4})$	2.25	2.71	4.16	2.98	3.58	3.65

Table 2: Beam gas associated background hadron events from separated beam and single beam at $E_{cm} = 1.775GeV$, where $f = (\int_{run} P_{run} \cdot I_{run}\,dt)/(\int_{sep} P_{sep} \cdot I_{sep}\,dt)$ to separated beam, or $f = (\int_{run} P_{run} \cdot I_{run}\,dt)/(\int_{sg.} P_{sg.} \cdot I_{sg.}\,dt)$ to single beam, and $N_{bg} = f \cdot N_{obs}$

BEPC mode	N_{obs}	f	N_{bg}
separated beam	19	4.31	81.9
single e^+ beam	4	20.93	83.7
single e^- beam	1	105.1	105.1