$$N_{data} \begin{cases} N(O > 0)_{data} \\ N(O < 0)_{data} \end{cases}$$

$$N_{bkg} \begin{cases} N(O > 0)_{bkg} \\ N(O < 0)_{bkg} \end{cases}$$

$$N(O > 0)_{eff.} = N(O > 0)_{data} - N(O > 0)_{bkg}$$
$$N(O < 0)_{eff.} = N(O < 0)_{data} - N(O < 0)_{bkg}$$

$$A'_{cp} = \frac{N(O>0)_{eff.} - N(O<0)_{eff.}}{N(O>0)_{eff.} + N(O<0)_{eff.}}$$

data

$M_{lb} < 150 GeV$

Selection cut

data

fitted bkg.

fitted bkg.