## 12 wjet fidarebont

I tried to see if Hyp2006 analysis is "cured" with newest reconstruction procram FIDARC6O4 (DecemBer production)

## The prolosite PlB 622

-B, (MeV) for the different "OBserved" peaks
\#1 $-10.94 \pm 0.06$
$\# 2 \quad-8.4 \pm 0.2$
\#3 $-5.9 \pm 0.1$
\#4 $-3.8 \pm 0.1$
\#5 $-1.6 \pm 0.2$
\#6 $0.21 \pm 0.06$
\#7 $21 \pm 0.2$
resolution 0.55 MeV (fixed and determined By an "ad hoc" fit on the S-state with "dedicated" cuts). These results were obtained using data reconstructed By FIDARC v5lland with only 2 of $3^{12} \mathrm{C}$ targets (target 1 and 8) due to problem on alignment....

## The prologue -rsp2006




Hyp20Ob analysis "opened" a discussion about the Ip level splitting w.r.t. PLB results

## Now.....

${ }^{12} C$ is now analyzed with our latest reconstruction program. Optimized selection criteria



## Now......




## Now,.....



I Yieldgausl O.OOOOOE +00 constant
2 Peak gausl -12400 constant
3 Sicmagaus 0.58502 O.64366E-Ol O.30734E-O2 -O.II66E-OI
4 Yieldgaus2 O.OOOOOE+OO constant
5 Peak Gaus2 -11.300 constant
6 Yieldgaus3 O.OOOOOE + OO constant
7 Peak gaus3 - 10.900 constant
8 Yieldgaus4 O.OOOOOE +00 constant
9 Peak Gaus4 -3.8000 constant
10 Yieldgaus5 O.0000OE+OO constant
II Peak gaus5 -0.60000 constant
12 Yieldgausb O.OOOOOE +00 constant
13 Peak Gausb -1.2700 constant
14 Yieldcaus 777.44 87.51O -O.1285OE-O2 -O.13956E-O1
15 Peak Gaus 7 - 0.39336 O.93723E-Ol O. $13444 E-03-0.23781$
I6 YieldGaus8 $181.36 \quad 32793 \quad-0.10311 E-02$-O.45736E-OI
17 Peak Gaus 80.949050 .1131 -O.21661E-O3 O.33125E-OI
18 YieldGaus9 $308.86 \quad 61.734$ O.29284E-O3 O.32879E-OI
19 Peak Gaus9 -1.6274 0.22913 O.22913 O.280OE-O2

## Next steps:

1) make as soon as possible a new production without alignment
2) Give up with carBon hyper-nuclear spectroscopy
