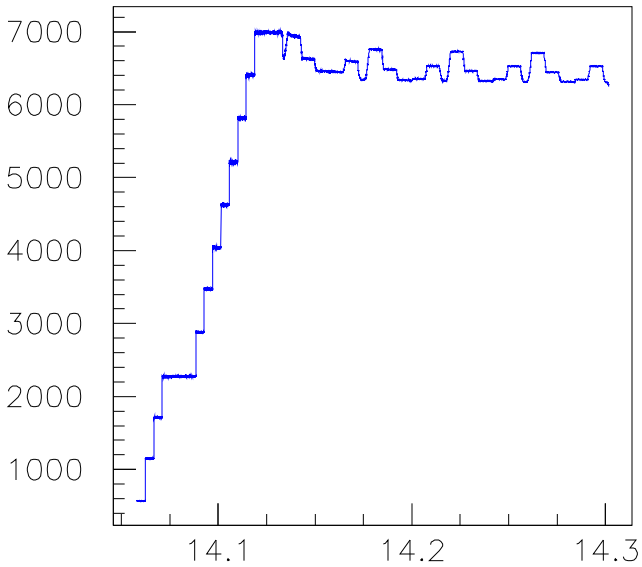
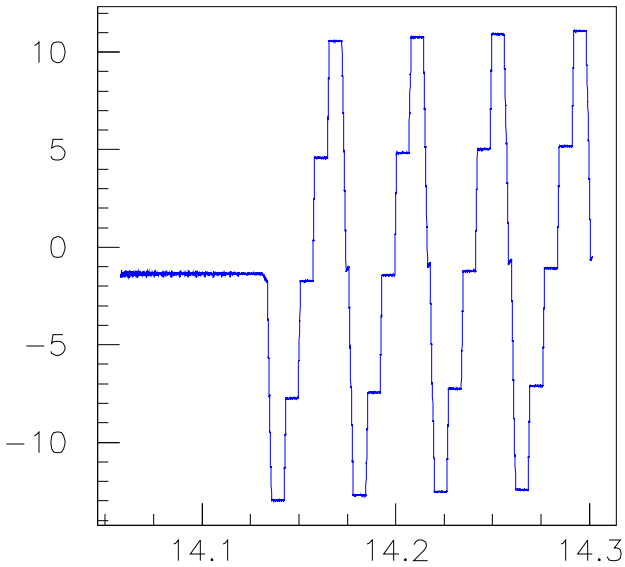
2004/03/18 17.37

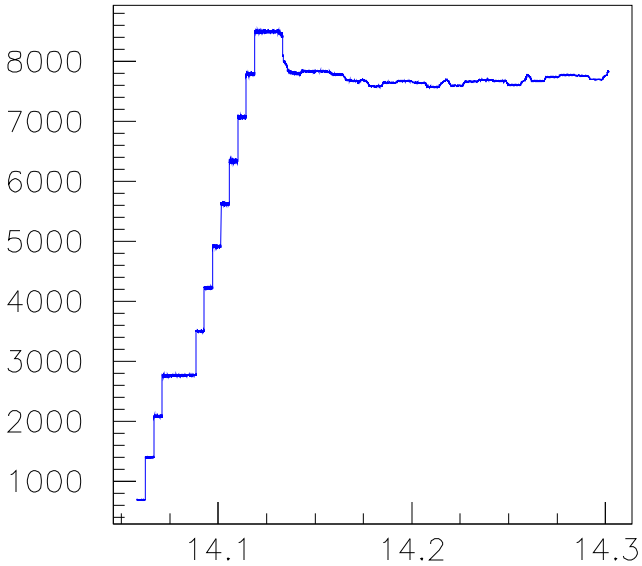
Grid Study, Mar 11, 2004, Recycler Echotek



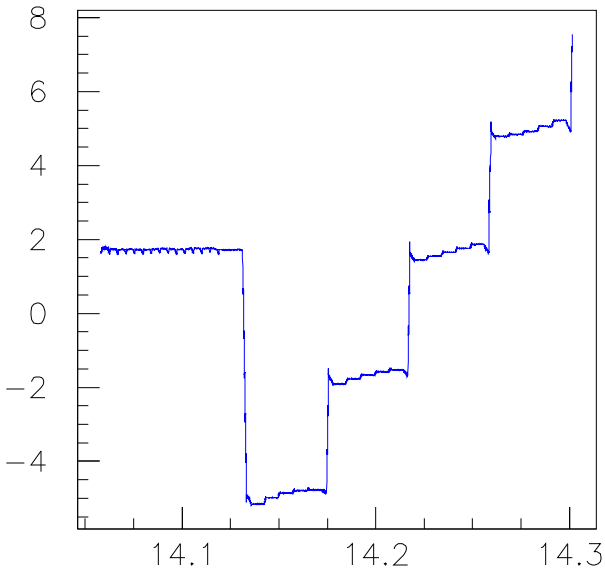
a) HA15 A+B Proton(hours)



b) HA15 26∗(A−B)/(A+B) Proton



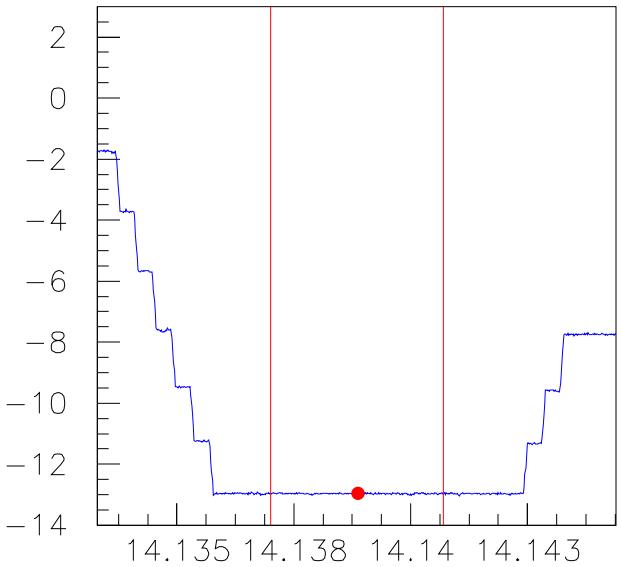
c) VA14 A+B Proton(hours)



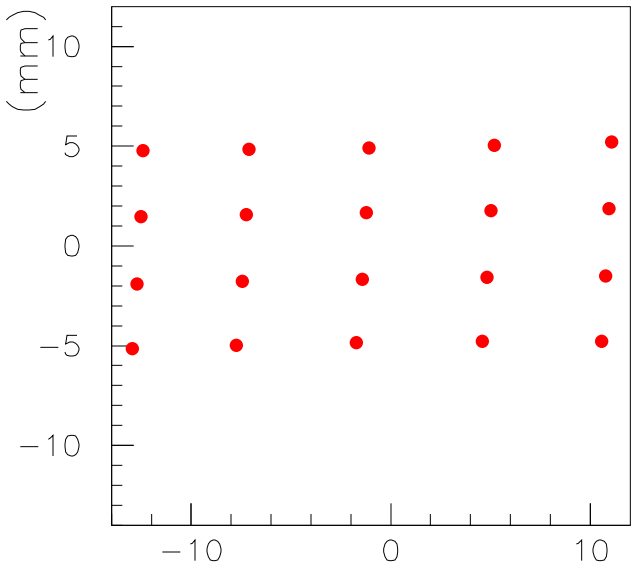
d) VA14 26∗(A−B)/(A+B) Proton

2004/03/18 17.37

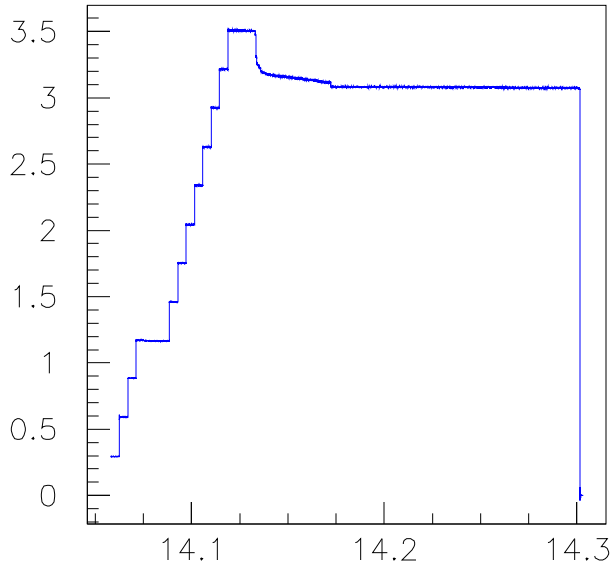
Grid Study, Mar 11, 2004, Recycler Echotek



a) HA15 26*(A−B)/(A+B) Proton

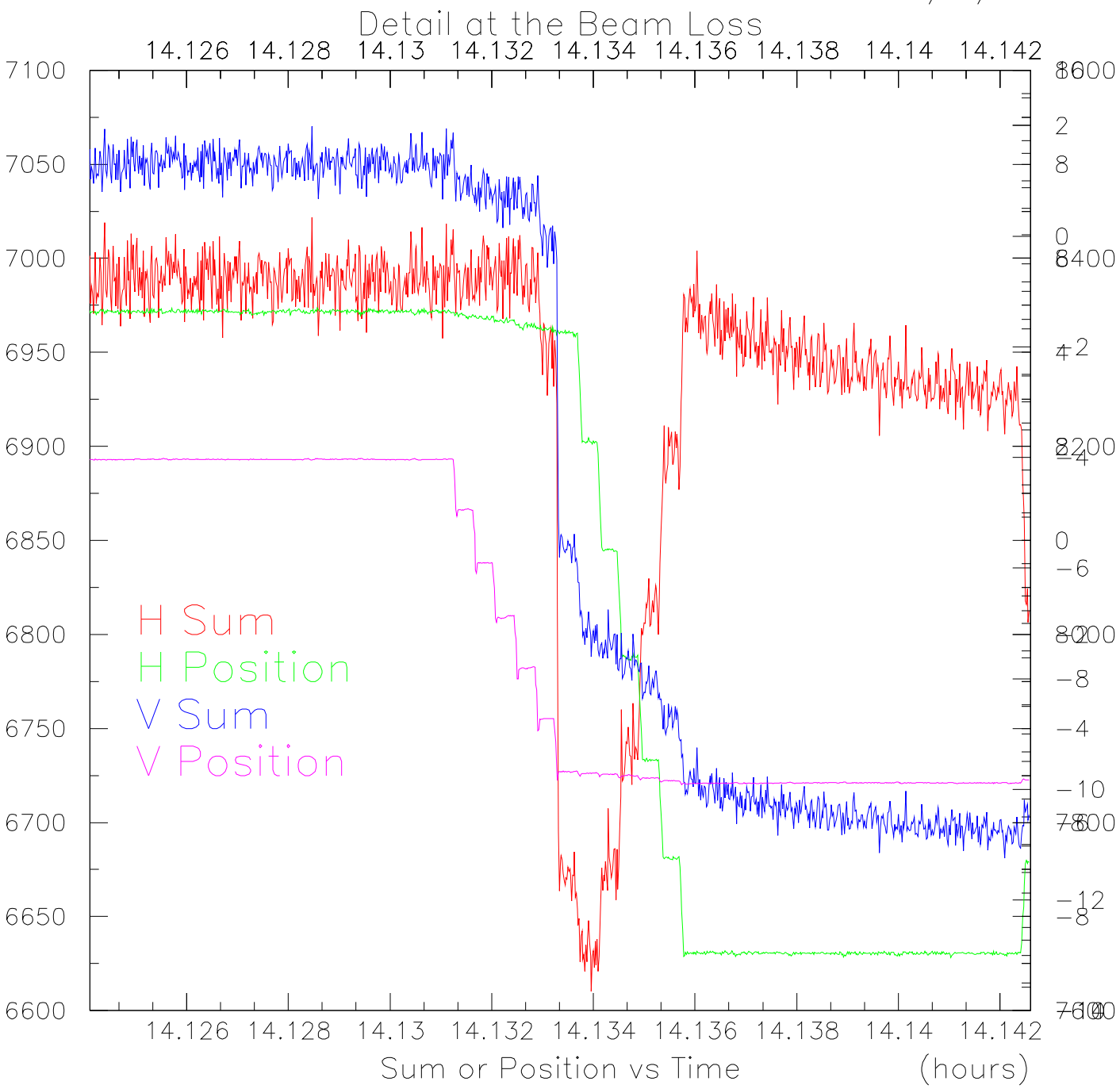


b) Measured V vs H (mm)



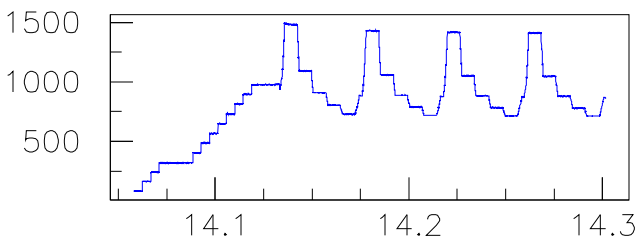
c) T:IBEAM

2004/03/18 17.37

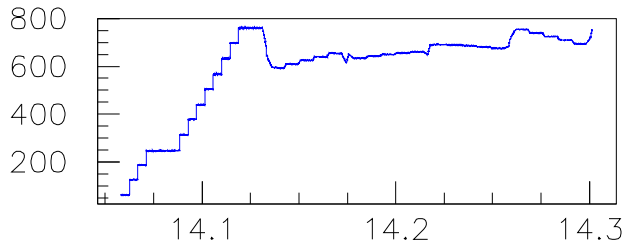


2004/03/18 17.37

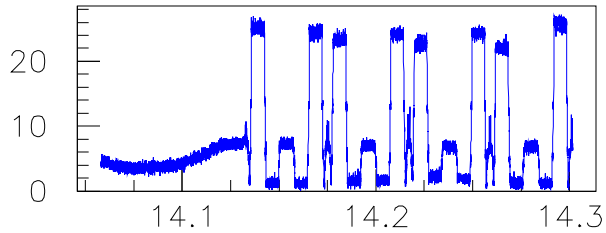
Cancelation of Proton Signal on Pbar Cables



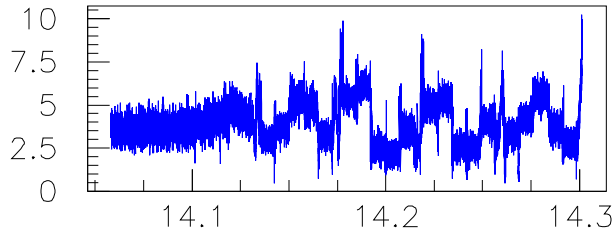
a) H Pbar A+B, Raw(hours)



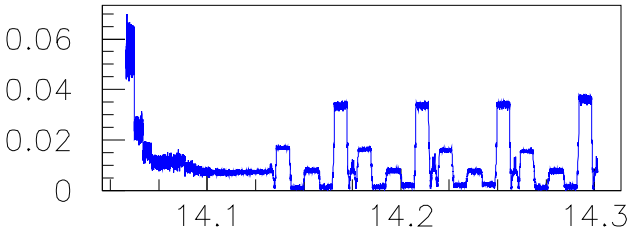
b) V Pbar A+B, Raw (hours)



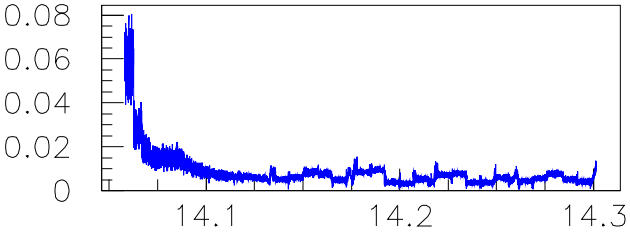
c) H Pbar A+B, Corrected



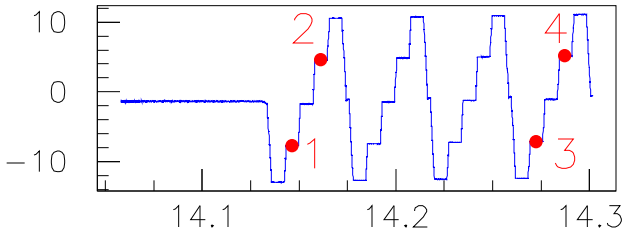
d) V Pbar A+B, Corrected



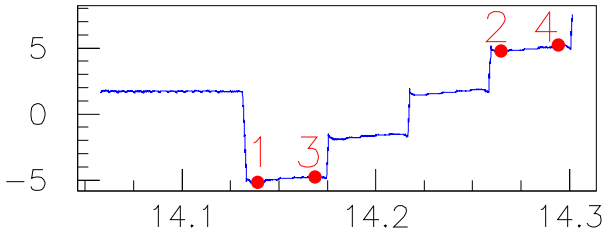
e) H Pbar A+B, Corrected/Raw



f) V Pbar A+B, Corrected/Raw



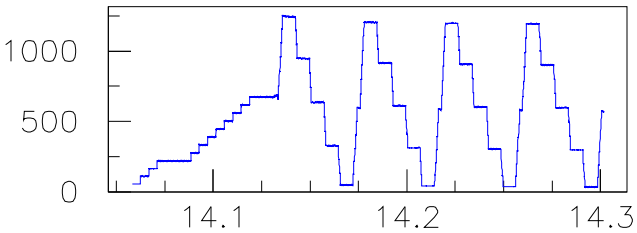
g) H 26*(A−B)/(a+b)



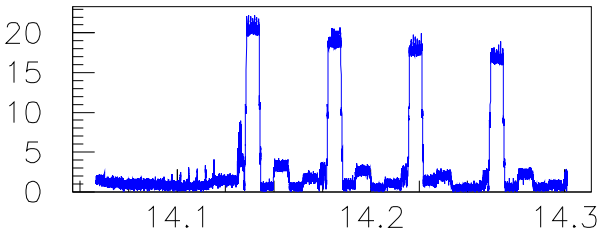
h) V 26*(A−B)/(a+b)

2004/03/18 17.37

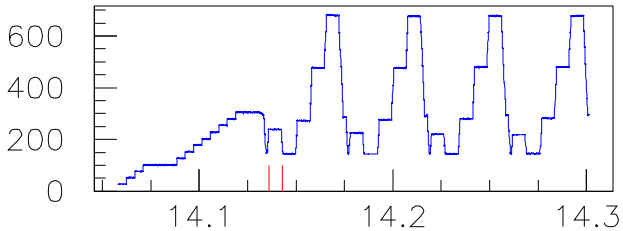
Signal Magnitudes for Each Cable



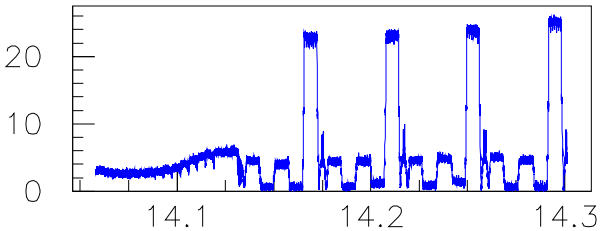
a) H Pbar A Raw (hours)



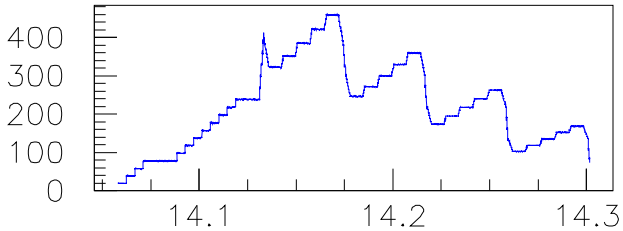
b) H Pbar A Corrected



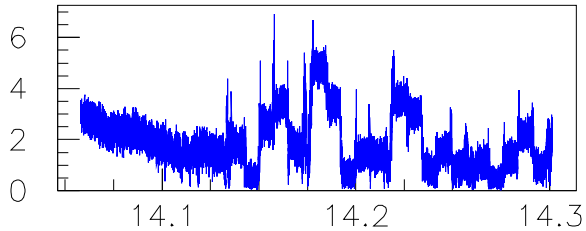
c) H Pbar B Raw (hours)



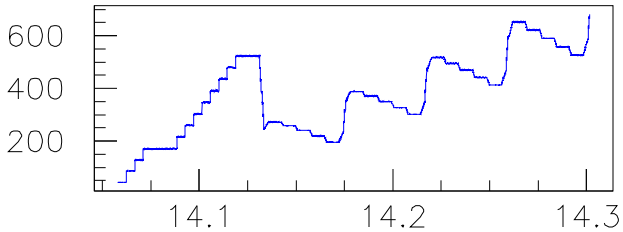
d) H Pbar B Corrected



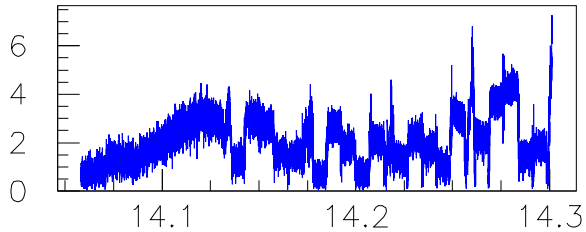
e) V Pbar A Raw (hours)



f) V Pbar A Corrected



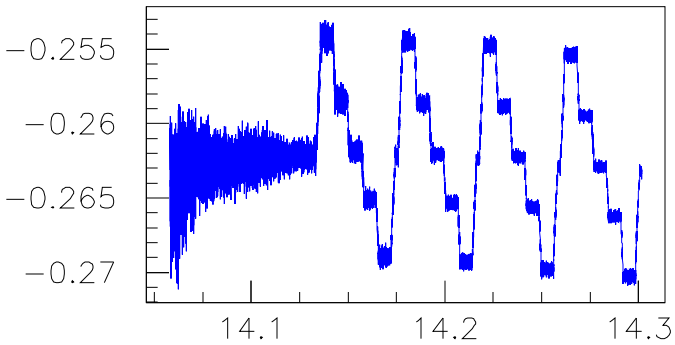
g) V Pbar B Raw (hours)



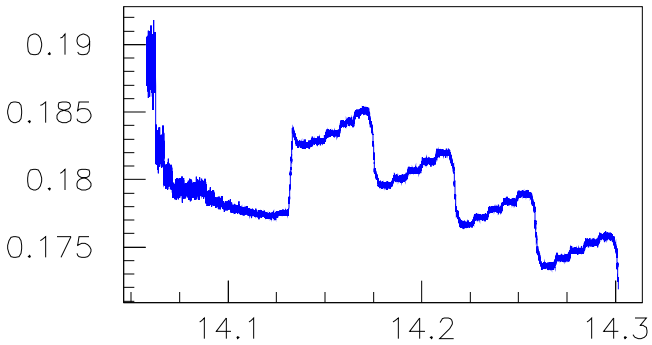
h) V Pbar B Corrected

2004/03/18 17.37

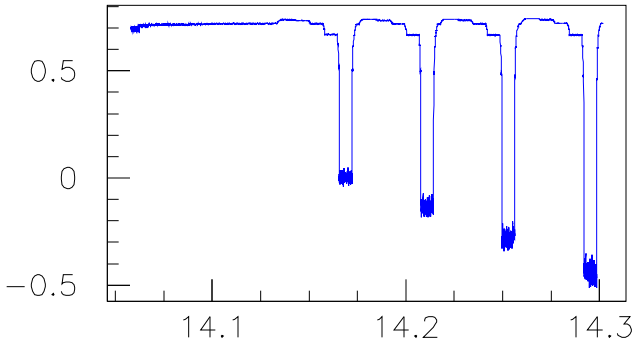
Relative Phases for each Cable



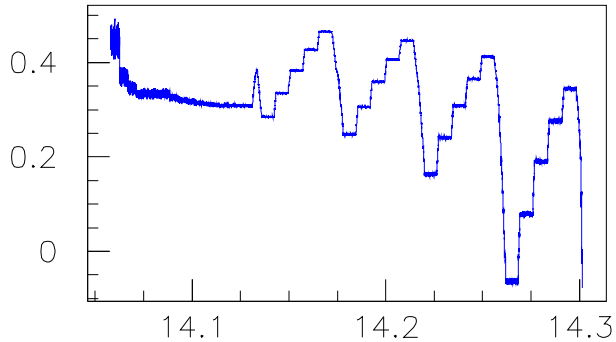
a) H arg(B_P)−arg(A)



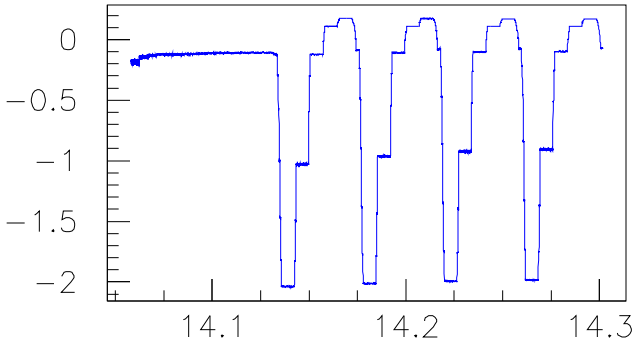
b) V arg(B_P)−arg(A)



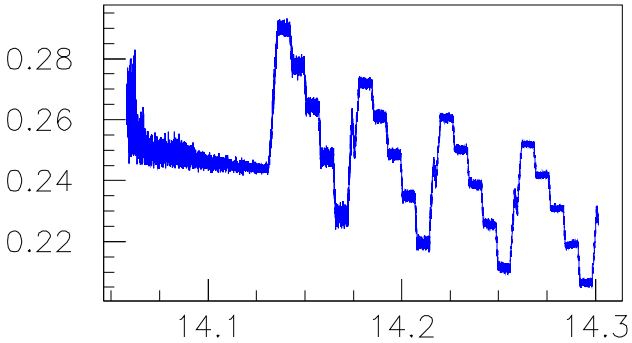
c) H arg(A_{PBAR})−arg(A_P)



d) V arg(A_{PBAR})−arg(A_P)



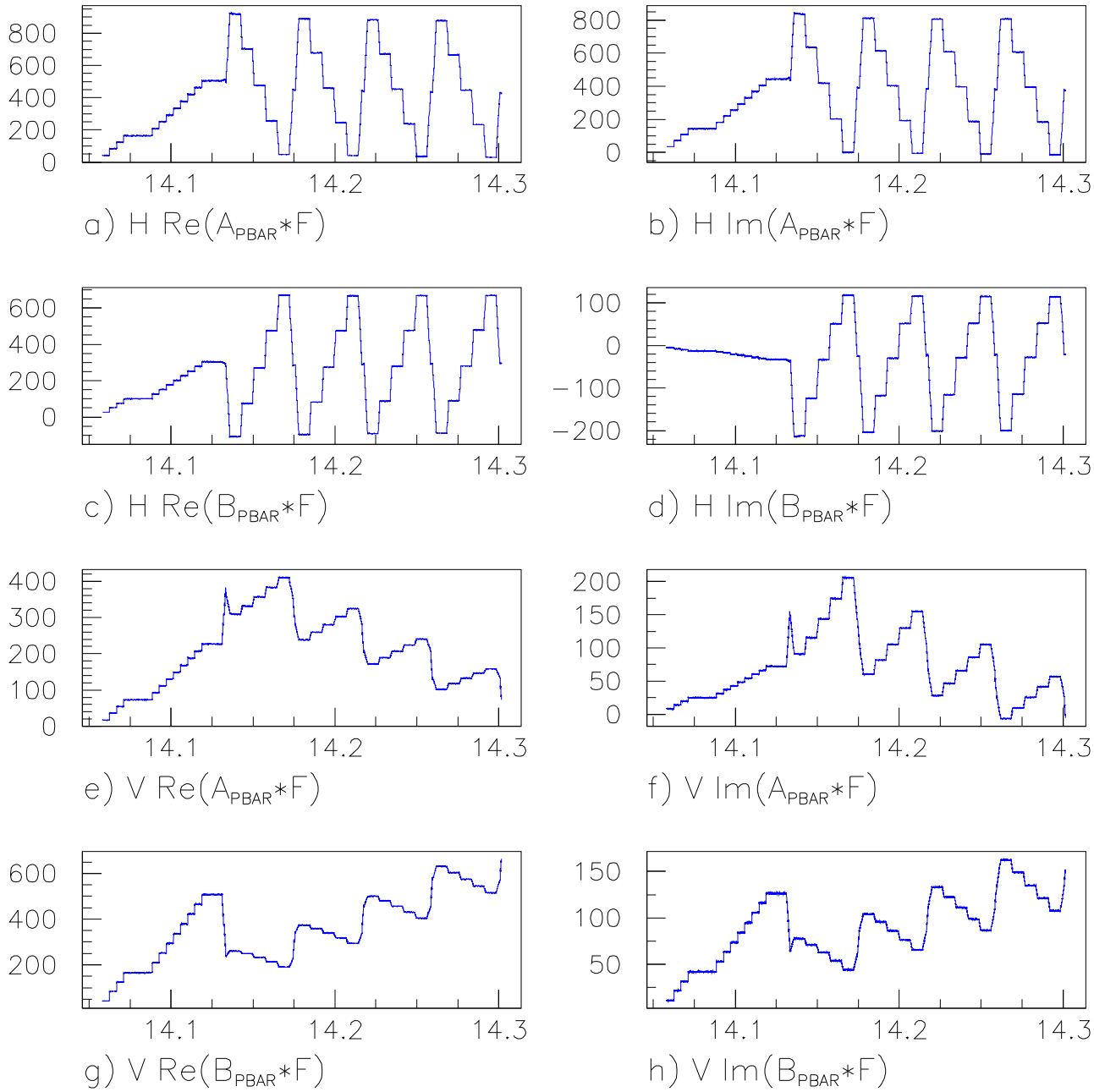
e) H arg(B_{PBAR})−arg(A_P)



f) V arg(B_{PBAR})−arg(A_P)

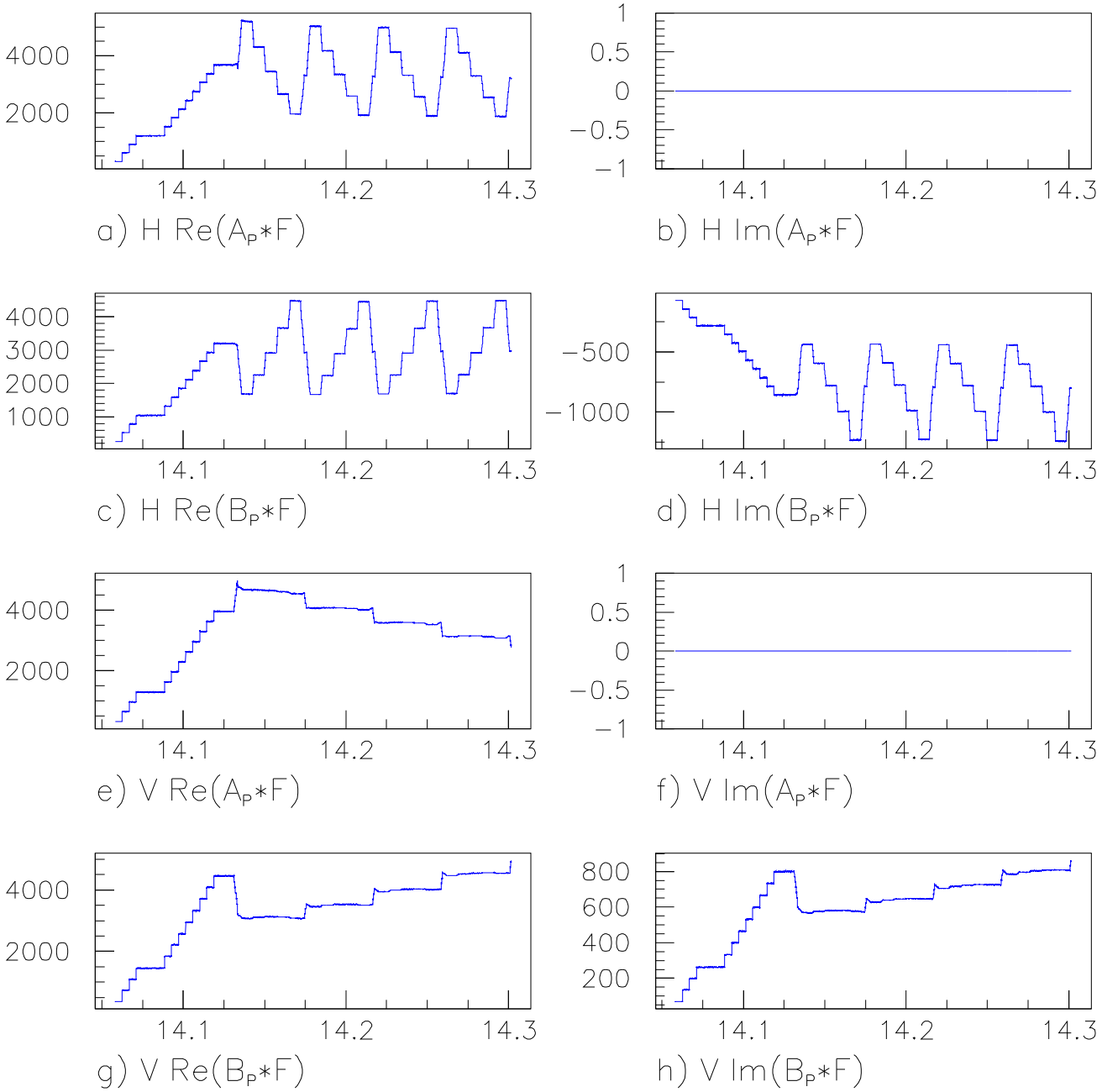
2004/03/18 17.37

Real and Im Parts of PBAR Signals. F=EXP(−i ARG(A_P))



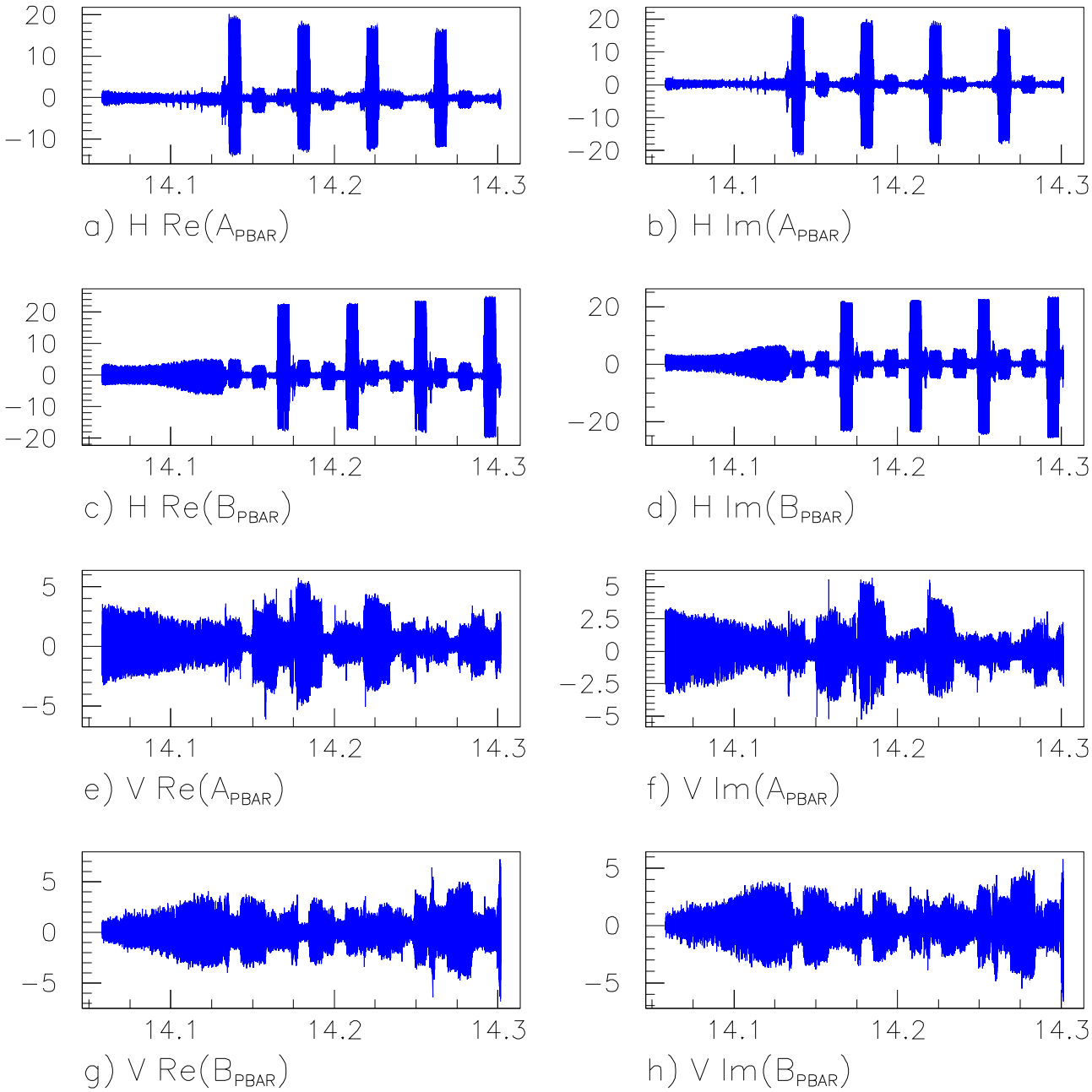
2004/03/18 17.37

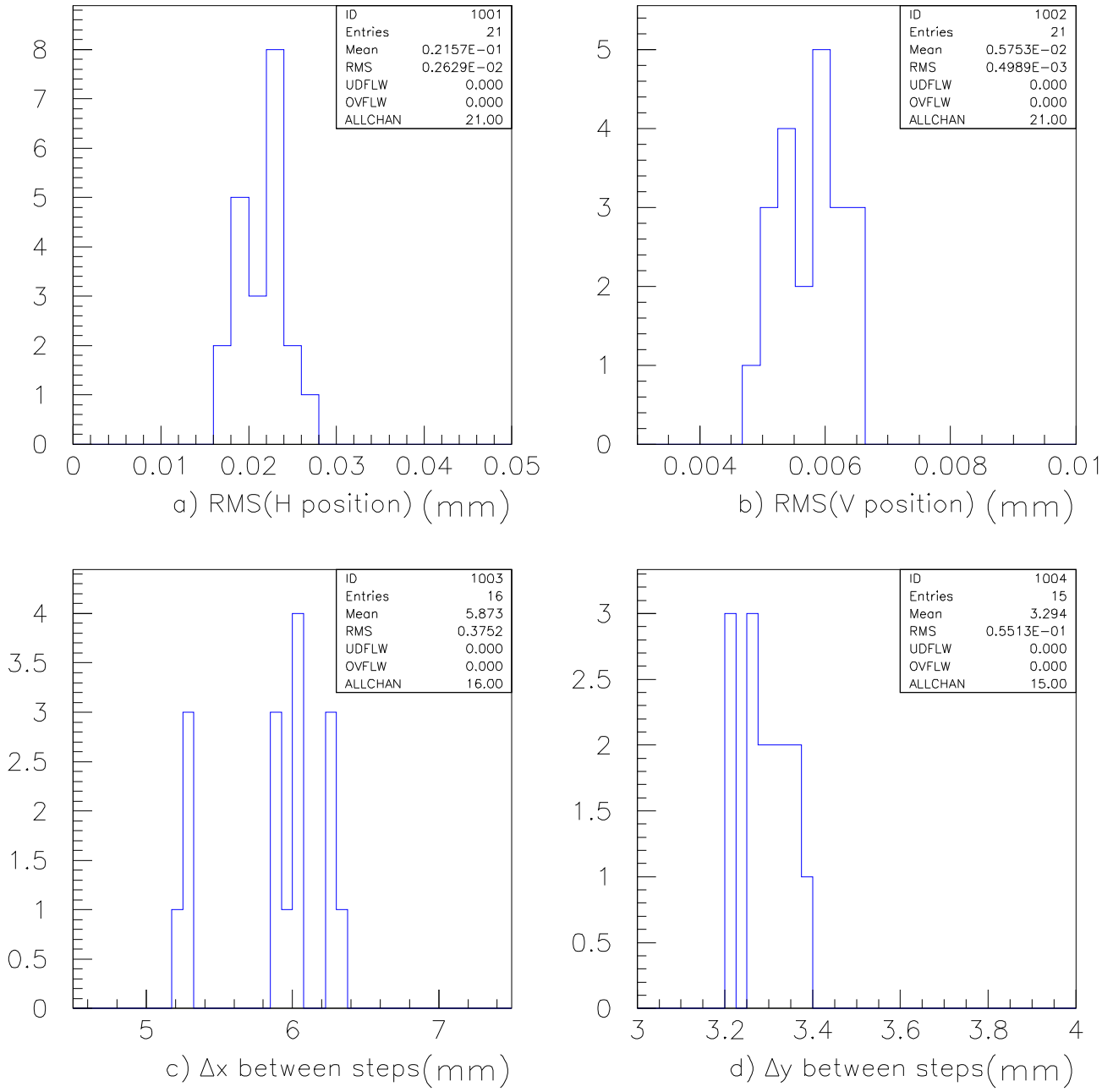
Real and Im Parts of Proton Signals. F=EXP(−i ARG(A_P))



2004/03/18 17.37

Real and Im Parts of Corrected PBAR Signals



2004/03/18 17.37

Resolution and Reproducibility