

Hi Miha,

Please first refer to the wiki page to see the spin direction history:

[https://hallaweb.jlab.org/wiki/index.php/Eed\\_Target\\_Calibration\\_List](https://hallaweb.jlab.org/wiki/index.php/Eed_Target_Calibration_List)

As for the EPR, the shape of the EPR frequency with AFP flips is corresponding to the initial spin direction relative to the holding field, that is:

high-low-high -> Anti-parallel

low-high-low -> Parallel

→ de je vse prav, mora biti vedno tu opaziti!  
↓ če je tako, proučite v napredni mer!

And the  $\pm$ , the relative spin direction, in the fitting program should be chosen by the user and is NOT automatically selected. If the both the type of the alkali and the relative spin direction is correct, one should see the correct holding field amplitude calculated by the program, about 25 Gauss in our case.

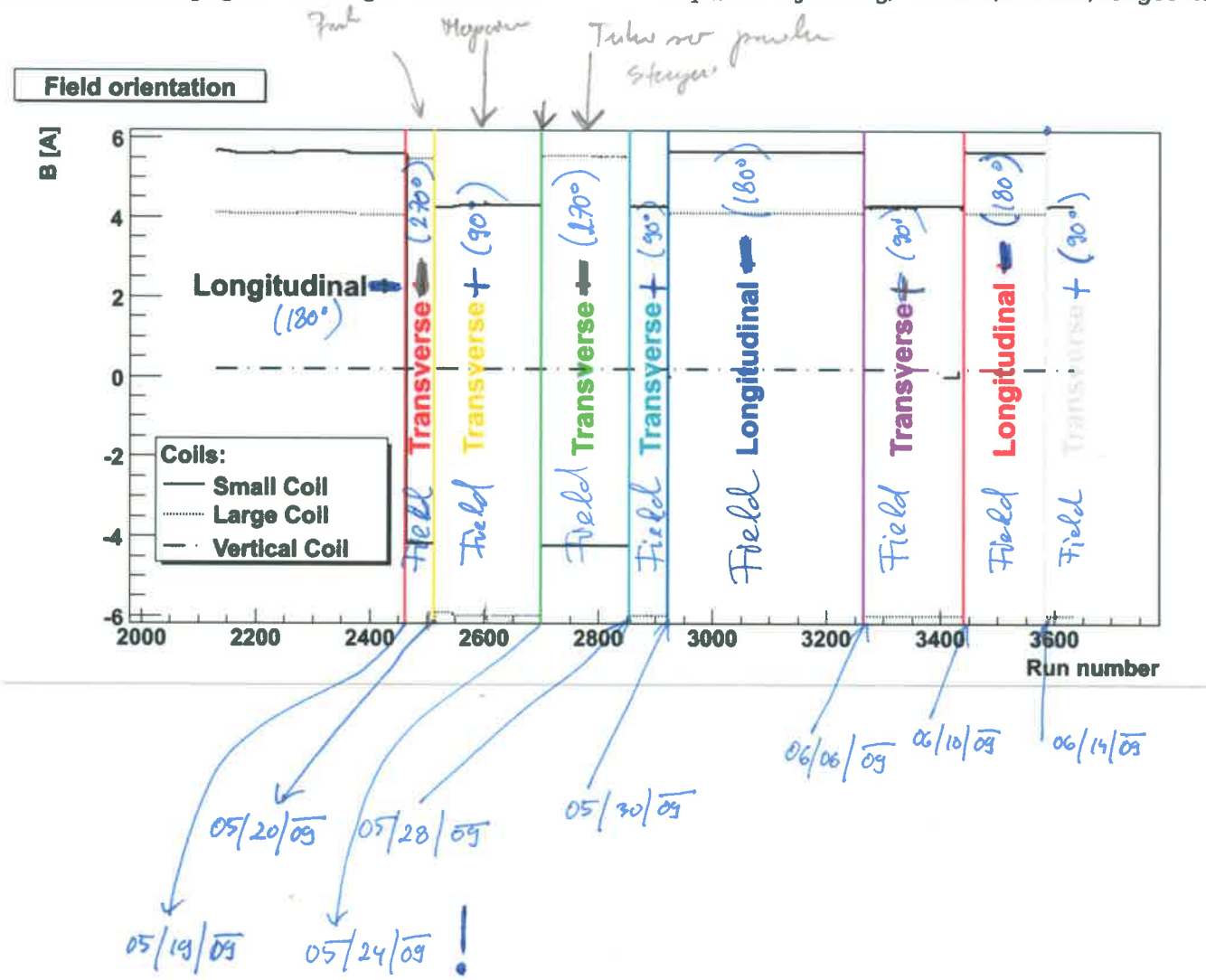
So, here is the way to absolutely tell the spin direction:

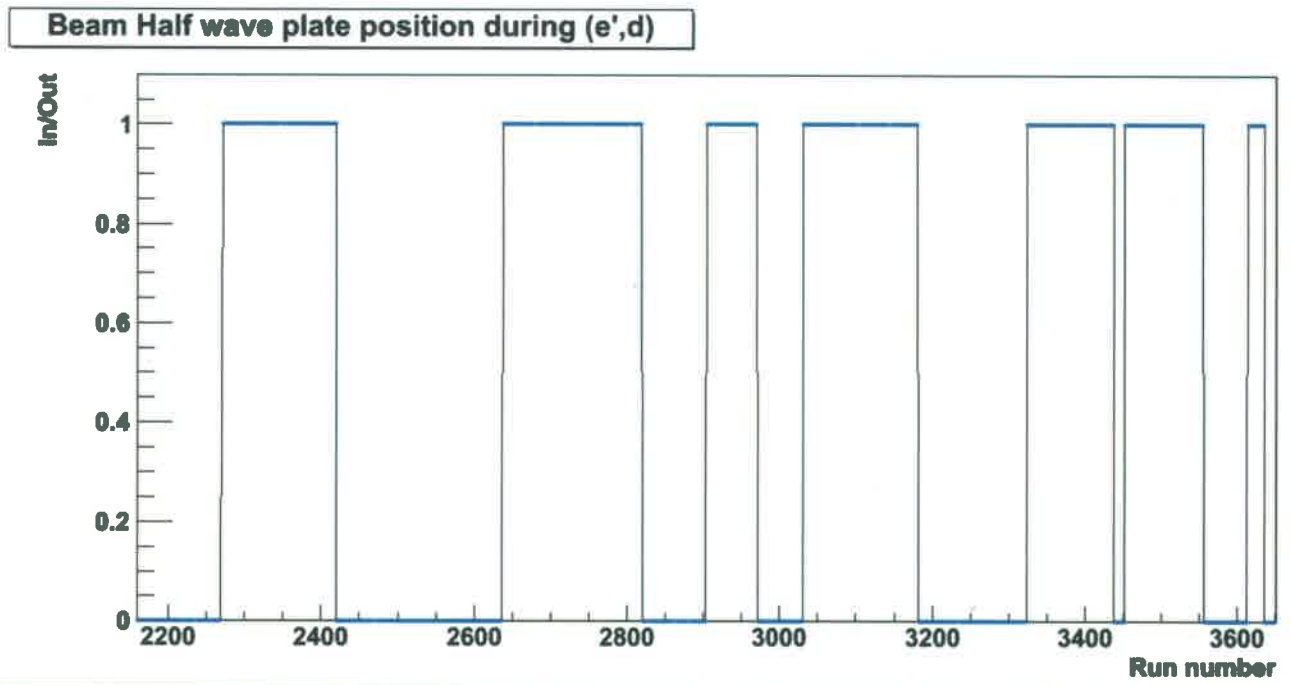
- 1) determine the field direction by checking the Helmholtz coil current (refer to wiki page [https://hallaweb.jlab.org/wiki/index.php/Holding\\_Field\\_Control](https://hallaweb.jlab.org/wiki/index.php/Holding_Field_Control) )
- 2) determine spin direction relative to the field by checking the EPR measurement.

Cheers,  
Yi

Poglej si še EPR  
kvaliteto in Transm.  
Naj bo voda, sicer je  
field +1.

Kere ste  
uporabili za EPR  
na U in Rb





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**User name Jin Huang**

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**Entry number 276132**

**This entry is a followup to: [276126](#)**

**Followups:**

- [276202 05/25/09 01:25 miham Scaler comparison](#)

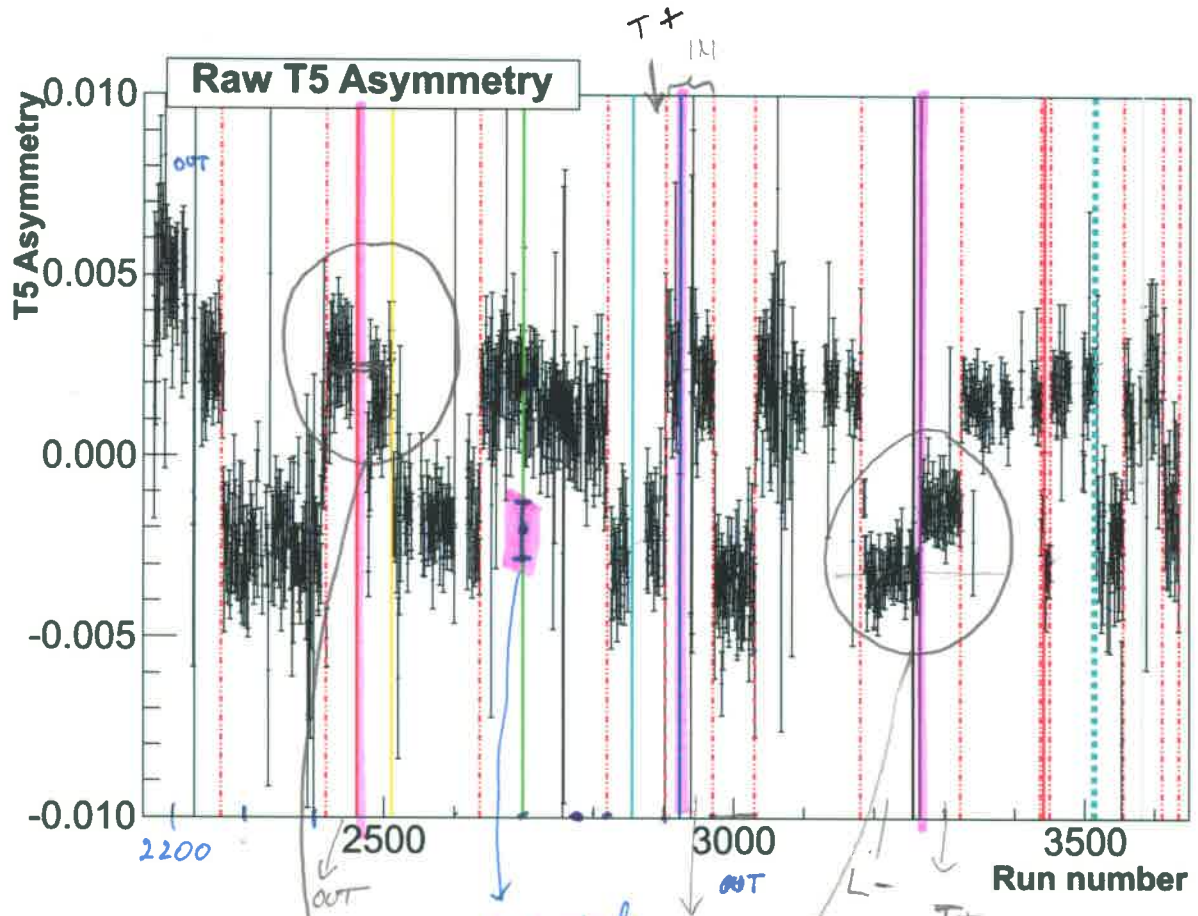
keyword=Spin Signal Changed from "-" to "+" before production 2701/21605

It appears that Yi and Doug made an deal to set spin signal to "+" while target spin is along Transverse + direction. Therefore, spin signal is also flipped before production 2701/21605. The "spin +" pair of gated scalars are now active, while the minus bands are disabled.

As a summary:

run	Field	Spin	Spin Signal
before and include run 2699/21603	Trans +	Trans -	-
run 2700/21604	Trans -	Trans +	-
after and include run 2701/21605	Trans -	Trans +	+

Special Note: Scalar consistency should be checked for the "spin +" pair of gated scalars



TADVA STA NAREJENA  
 PRI ISTIH POGOJIH,  
 VENDAR STA RASUKANA!  
 TO PRIČA O NAPAZI!  
 SCALERJI SO OBRNjeni.  
 LE TI SO POGODJENI  
 S TEM, KJE IN KATERI  
 SIGNAL JE PRINJAL  
 NOTER!