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Run:	378
Author:	TP
Type:	Info
System:	General
Subject:	Comparison of Au data, PSI-RikenRAL-TrimSP

Comparison of our recent 200nmAu data with TrimSP implanted fractions shows, that still we do observe a deviation below 3 keV.

LEM: 13.5kV transport, 20K, 83 GTF Helmholtz magnet  
 TrimSP:  $\sigma_E = 500$  eV,  $\sigma_{\text{Angle}} = 15$  degree.

The Riken-RAL data - that we got from Pavel Bakule - shows a better agreement between experiment and TrimSP ( $\sigma_E = 100$  eV,  $\sigma_{\text{Angle}} = 0$ ), although the 0.3 and 1 keV experimental data seems to be systematically below the TrimSP prediction.

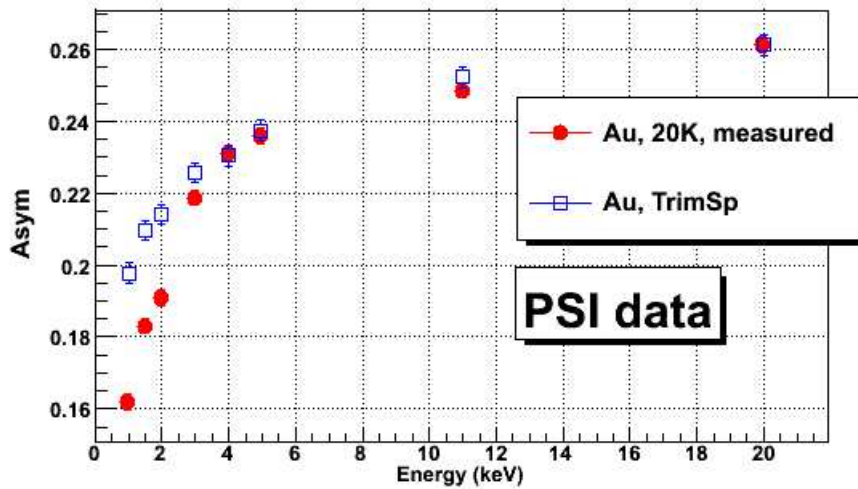
The maximum asymmetry of the Riken-RAL data is expected to be  $\sim 0.079$  (about 10% larger than the 9-keV data), which is only about 30% of PSI-LEM maximum asymmetry ( $\sim 0.275$ ).

The Riken-RAL data do not show an increase of depolarization rate below  $\sim 5$  keV, as it is observed in low field in our measurements.

Summarized data are in `/mnt/home/nemu/analysis/2008/Au/RAL_Data`.

Attachment 1: [Compare\\_Asym\\_PSI-RAL.png](#) 22 kB | [Hide](#) | [Hide all](#)

Compare\_RAL\_PSI\_TrimSP.rootData.PSI==1, Asym



Compare\_RAL\_PSI\_TrimSP.rootData.PSI==0, Asym

