Polarized 3He Test work status

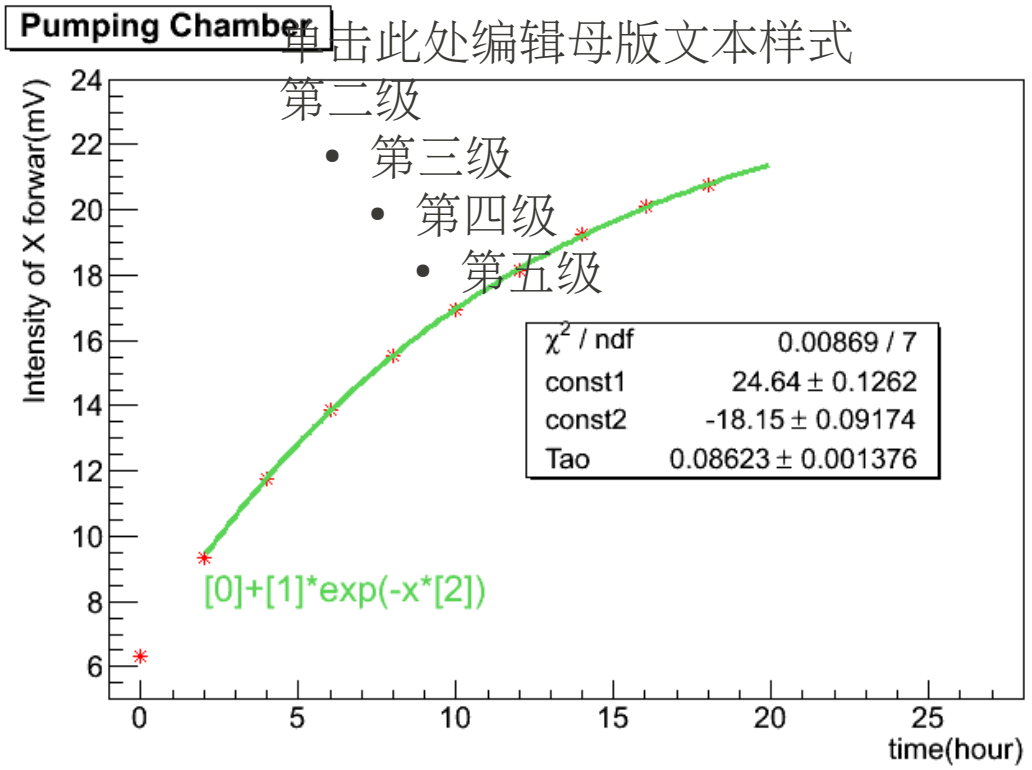
Jie Liu &Chunhua Chen

Cell Wall Thickness

Cell		Measured points			Average(mm)
Name	Part	A (mm)	B(mm)	C(mm)	
Maureen	Pumping	3.02	3.10		3.06
	Tube	1.63	1.62	1.64	1.63
	Target	1.54	1.52		1.53
Astralweek	Pumping	3.05	3.19	3.33	3.19
	Tube	1.59	1.59	1.58	1.587
	Target	1.58	1.64	1.58	1.60
Brady	Pumping	2.8	2.84	2.54	2.727
	Tube	1.36	1.26	1.36	1.327
	Target	1.44	1.40	1.38	1.407

Brady appears to be thinner

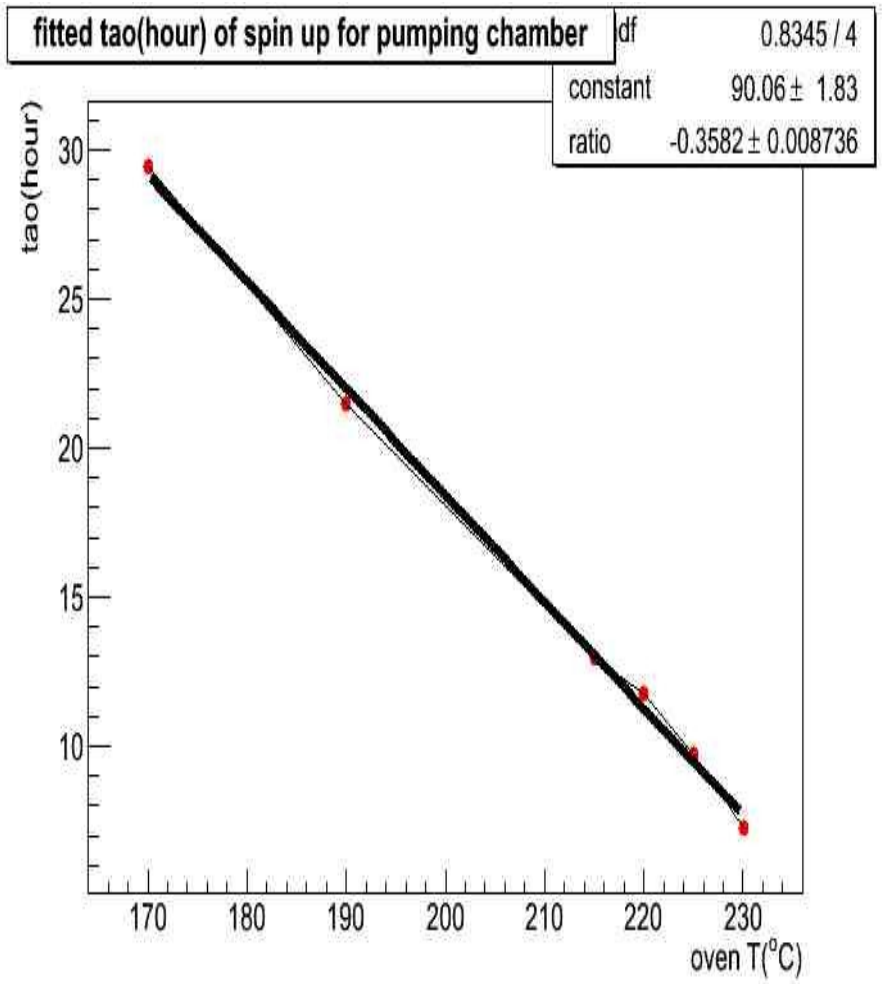
Exponential Fit

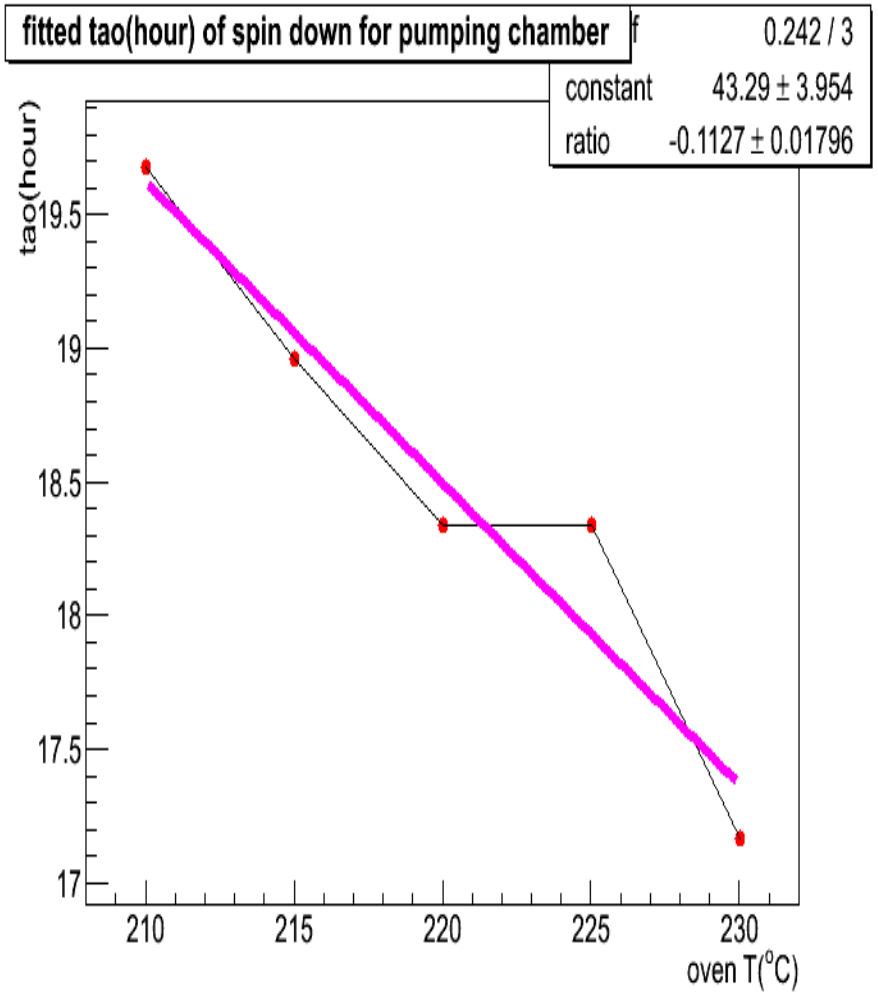


T=215oC

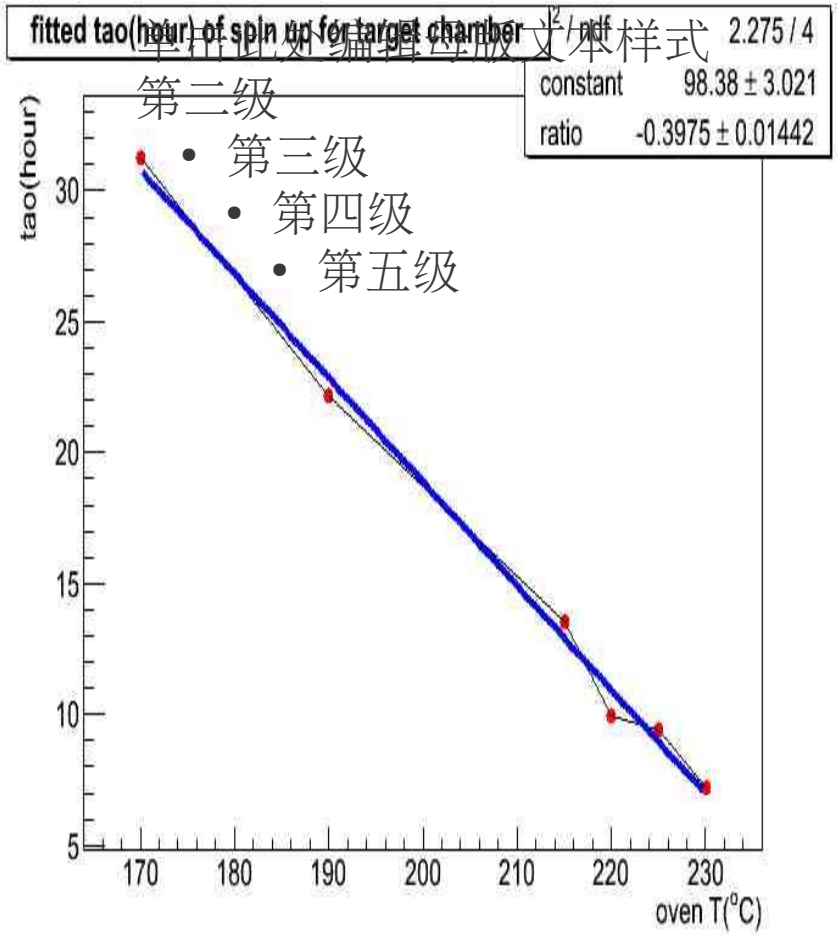
Fitted range ～ 2.5 *tao, and ignore the first point

Tao of Pumping Cell





Tao of Target Cell



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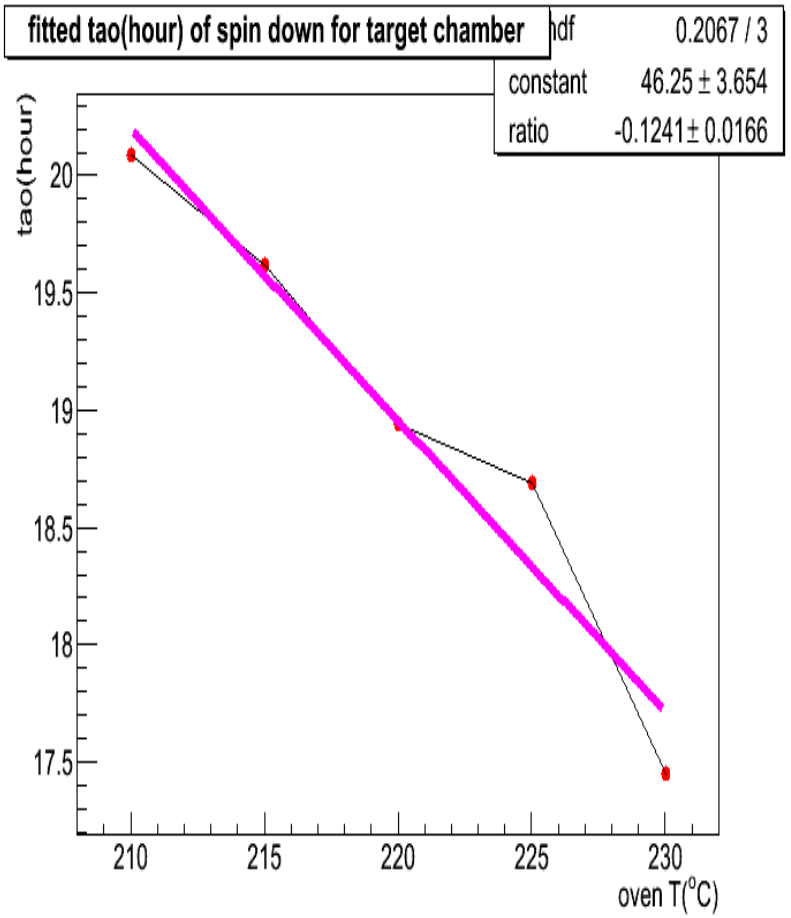

Water Cell NMR signal

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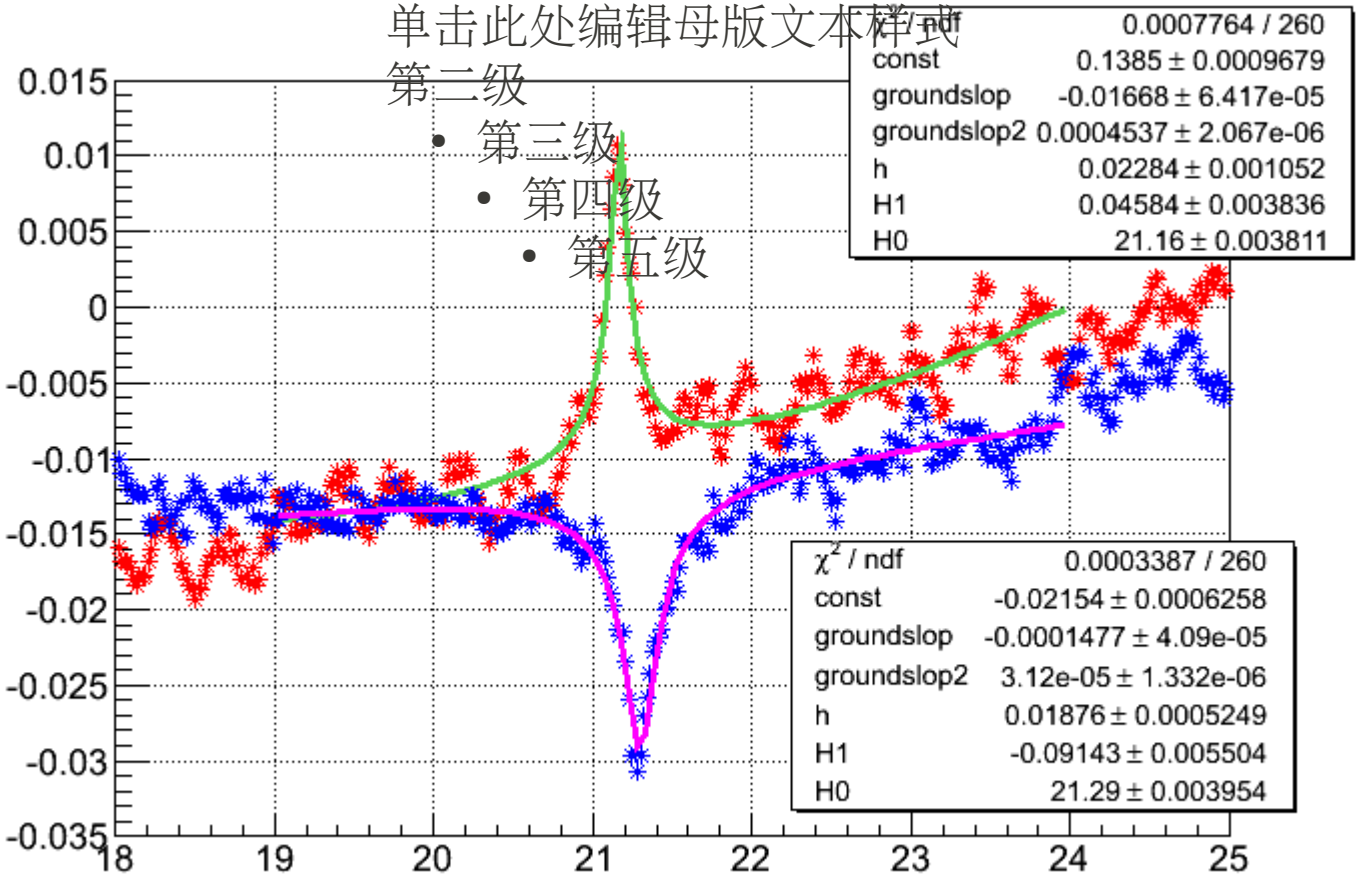

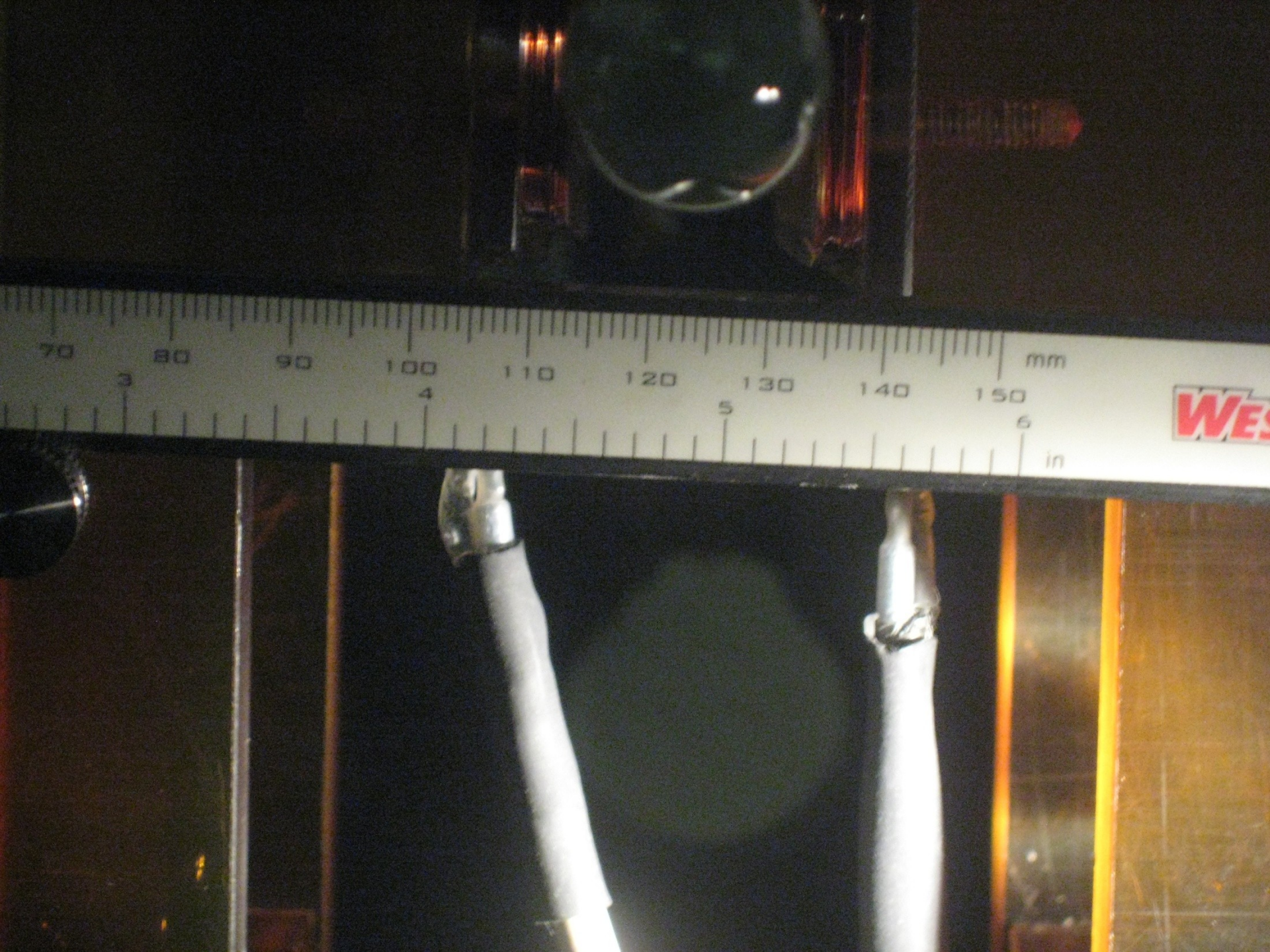
70
80
90
100
110
120
130
140
150
mm
3
4
5
6
in

To do

1.Analyze the water calibration data and calculate the polarization for 3He.
2. RTD calibration and New RTD install, we need a new wire for the new RTDs.
3.Zapper Coil
4. Pulse NMR