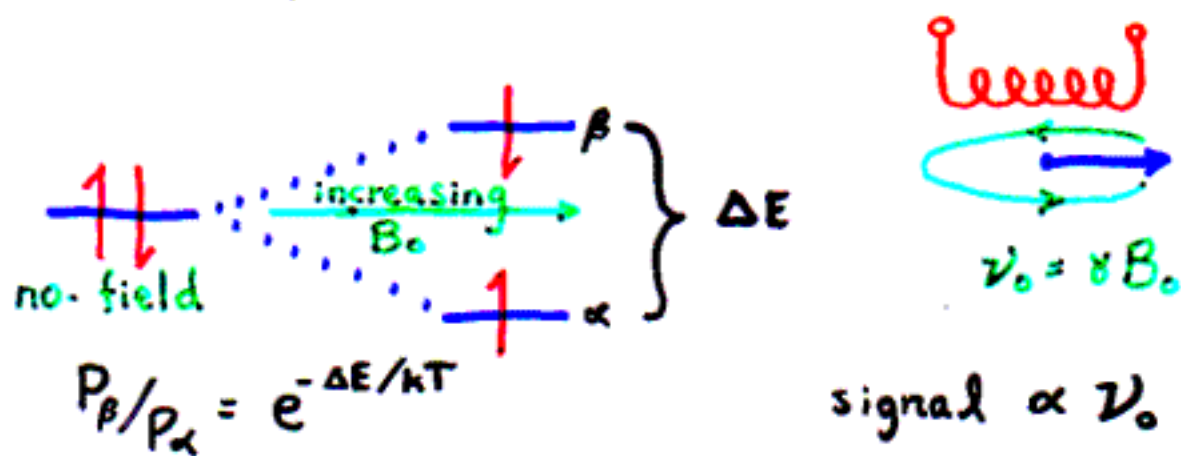


The High-Field Advantage



Sensitivity = B_0^2 (theory) $B_0^{1.5}$ (practice)

<u>Field</u>	<u>ν (MHz)</u>	<u>rel. sens.</u>	<u># scans</u>	<u>time</u>	<u>\$</u>	<u>space</u>
60	1.4 T	1	37,918	18.5 h		
200	4.7 T	6.1	1024	30 min	120K	
250	5.9 T	8.5	526	15.4		
300	7.0 T	11.2	304	8.9		
500	11.7 T	24.1	66	1.9	450K	
600	14.1 T	31.6*	38	1.1	850K	256 ft ²
700	16.5 T	39.9	24	42 s	1.4M	
800	18.8 T	48.7	16	28 s	2.3M	2450 ft ²
900	21.2 T	58.1	11	19 s	5.5 M	3528 ft ²

$\uparrow B_0^{1.5}$

* 4x more with cryoprobe (\$200K)