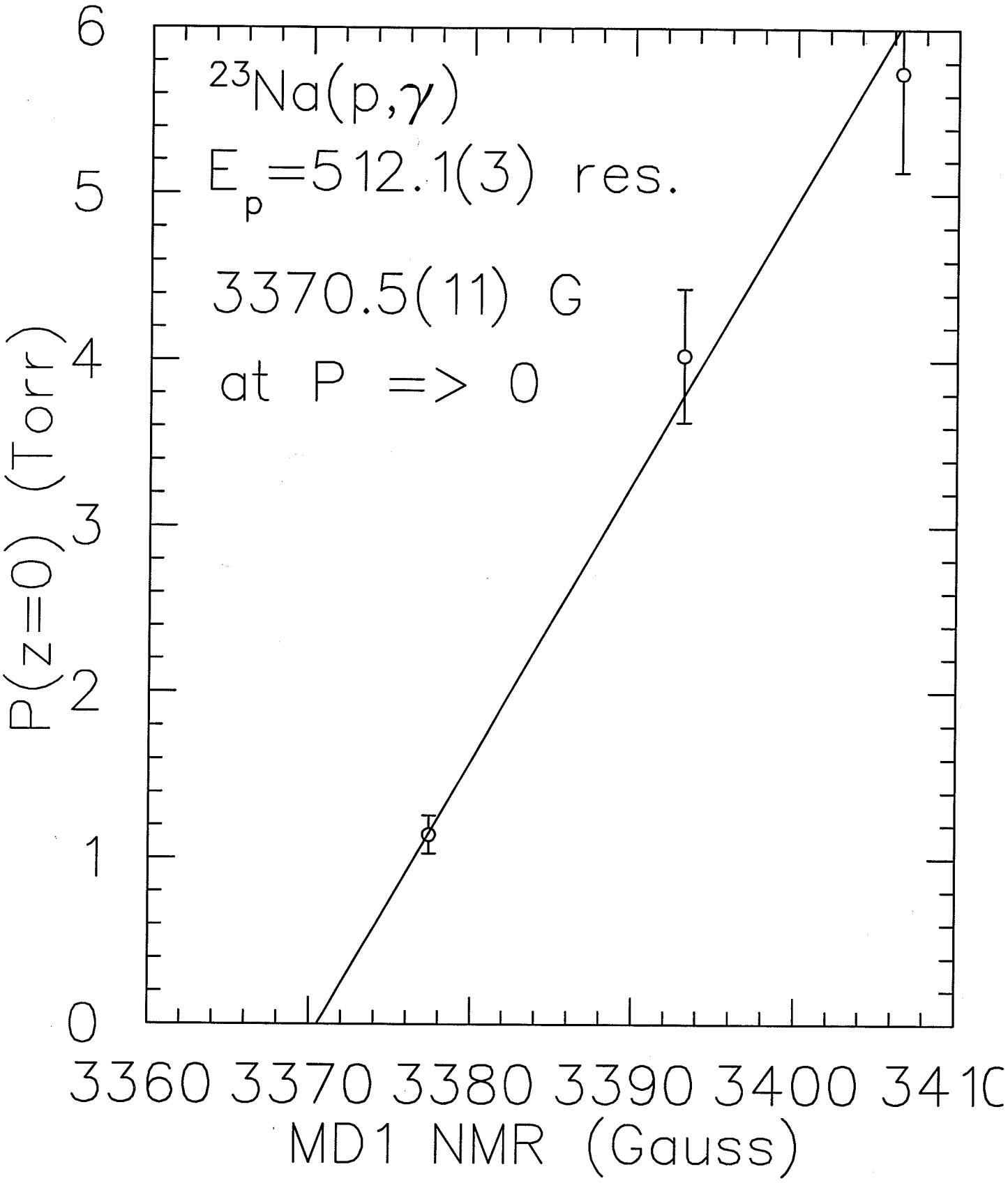
^{23}Na(p,γ)
E$_p$=512.1(3) res.
3370.5(11) G
at P => 0
P(z=0) (Torr)
0
1
2
3
4
5
6
3360
3370
3380
3390
3400
3410
MD1 NMR (Gauss)

$$\frac{E}{A} = c\left(\frac{qB}{A_i}\right)^2$$ — rel. corr'n $\sim \frac{E(MeV)}{1863\ A} \cdot \frac{E}{A}$

$< 10^{-3}(E/A)$

Optics design	c 48.24 (MeV/T^2)
^{21}Ne(p,γ) 269.4	48.09 ± 0.17
^{22}Ne(p,γ) 1159.8	48.21 ± 0.024
^{23}Na(p,γ) 508.1	48.25 ± 0.014 (preliminary) ±0.05 syst

7500 (7420) **90**

$\frac{E}{A} = c\left(\frac{q}{A}\right)^2$

$E_p = .5121$ MeV

$= 0.50814$ MeV/u

$\left(\frac{.33705 \times 7}{22.9906}\right)^2$

$M(^{23}Na\ 7+) = 22.994466 \times 931$
$- 7 \times .511/931.4$
$= 22.9906$

$-\frac{1}{2m}\left(\frac{E}{A}\right)^2 = \frac{1}{1863000}(508^2) = -.138 / 508 = -.02427$ keV/u

$c = 48.25$