

# 1. Magnetic Moment of Proton

Yukawa Hall Archival Library  
 Research Institute for Fundamental Physics  
 Kyoto University, Kyoto 606, Japan

F02110

Proton or electron or  $\mu$  wave equation

電子の磁気モーメント  $\mu_B$  の測定

It

$$\frac{e\hbar}{2M_p c}$$

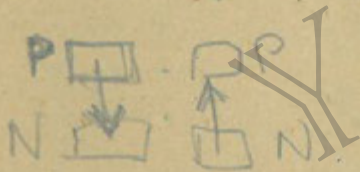
Stromverschiebung

Stern & Trisch, Rabi の実験

$g = 2$  の説明

原因として Proton Heavy Particle

Proton spin による



$$(1, 0, 0, \dots, 0, 0, \dots; 0, 0, 0, \dots)$$

$$\rightarrow (0, 0, 0, \dots, 1, 0, 0, \dots; 1, 0, 0, \dots)$$

$$\rightarrow (1, 0, 0, \dots, 0, 0, 0, \dots; 0, 0, 0, \dots)$$



$\tilde{U}$  quantum mean number

$$\frac{g}{2} \times \frac{e\hbar}{2M_p c}$$

massing. moment  $\mu_B$  order  $\frac{e\hbar}{2M_p c}$

in  $\mu_B$  order  $\frac{e\hbar}{2M_p c}$