

 $Ln(\eta_1)$

400

200

600 800 1000 1200 1400

H(Oe)

Antiferromagnetic domain nucleation and motion energy barrier directly determined in Fe/CoO System Qian Li, Jie Zhu, Tianping Ma, Yan Huo, Yizheng Wu Department of Physics, Fudan University, Shanghai, China







2.In the low field, the domain nucleation barrier energy increases sharply while the domain motion barrier energy saturates.

$E = 0.911 \pm 0.013 eV$ $E = 1.197 \pm 0.066 eV$



Domain nucleation possibility-A Domain wall motion possibility-B









VI Conclusion

1. AFM magnetization reversal process are clearly revealed in Fe/CoO system.

