

W12

회절발 진폭 분할 편광측정기를 이용한 자기 커효과 측정
(**MOKE measurement with a grating division of amplitude polarimeter**)

경북 포항시 남구 효자동 산-37 포항공대 물리학과 레이저 과학 연구실
신명섭*, 김동언
(Myoung-serp. Shin*, Dong-eon. Kim
Laser science laboratory, Dept. Physics, POSTECH,
San 31, Hyoja-dong, Namgu, Pohang, Kyungbuk, 790-784, Korea)

In spintronics, MOKE(magneto optic Kerr effect) is important as a tool to probe magnetization dynamics when combined with a pulsed laser in a pump-probe setup. Magnetization of a sample changes the polarization of the laser beam reflected on it and the polarization change is measured by GDOAP(grating division of amplitude polarimeter). GDOAP can measure all the stoke parameters in-situ because it has no moving parts and modulations. The working principles and calibration of GDOAP and also an example of measuring the stokes parameters will be presented.