

SELECTIVE REFLECTION SPECTROSCOPY WITH A HIGHLY PARALLEL WINDOW: PHASE TUNABLE HOMODYNE DETECTION OF THE RADIATED ATOMIC FIELD

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SELECTIVE REFLECTION SPECTROSCOPY

WITH A HIGHLY PARALLEL WINDOW:

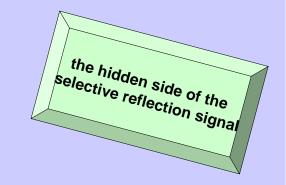
PHASE TUNABLE HOMODYNE DETECTION OF THE RADIATED ATOMIC FIELD

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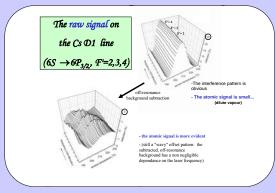
J. Guéna, M. Lintz , M.-A. Bouchiat,

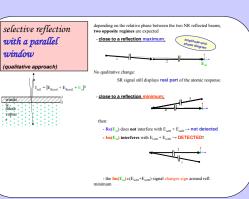
LKB, Département de Physique de l'ENS 24 rue Lhomond, 75 231 Paris cedex 05, FRANCE

(to be published in Eur. Phys. J. D)



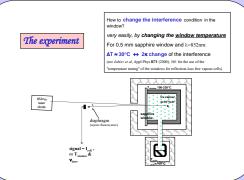
"ordinary" selective reflection ect the imaginary part?? Some proposals have been made: How to detect the imaginary part?? Some proposals have been made: ▶ Brewster incidence (Euger) () (Johan 4.6 Sould, 0. | 18/109), 446 → the sub-doppler feature of SR spectroscopy is lost; ▶ multificientric coatling (them on why Younneau all Paper, 0. (P. Cimma 118(1994, 115)) → the coating may be damaged by the atomic vapour ▶ metallic coating ("Chorniler at, 1979, Nov Te KASM4610), 2001) → considerable attenuation of the atomic signal, due to the required metal thickness

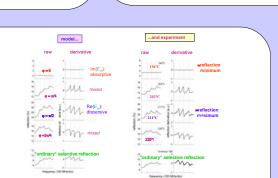


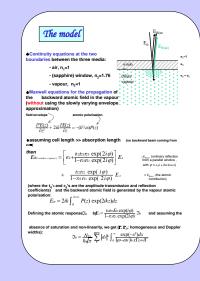


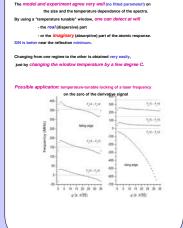
The raw and

derivative signals









Conclusion

