

STIMULATED RAMAN ADIABATIC PASSAGE
IN THE FIELD OF FINITE DURATION PULSES

M.B. Gromovyi, V.I. Romanenko, L.P. Yatsenko

Institute of Physics, Nat. Acad. of Sci. of Ukraine
(46, Nauky Ave., Kyiv 03028, Ukraine;
e-mail: vr@iop.kiev.ua)

S u m m a r y

The theory of stimulated Raman adiabatic passage in a three-level Λ -scheme of the interaction of an atom or molecule with light, which takes the nonadiabatic processes at the beginning and the end of light pulses into account, is developed.