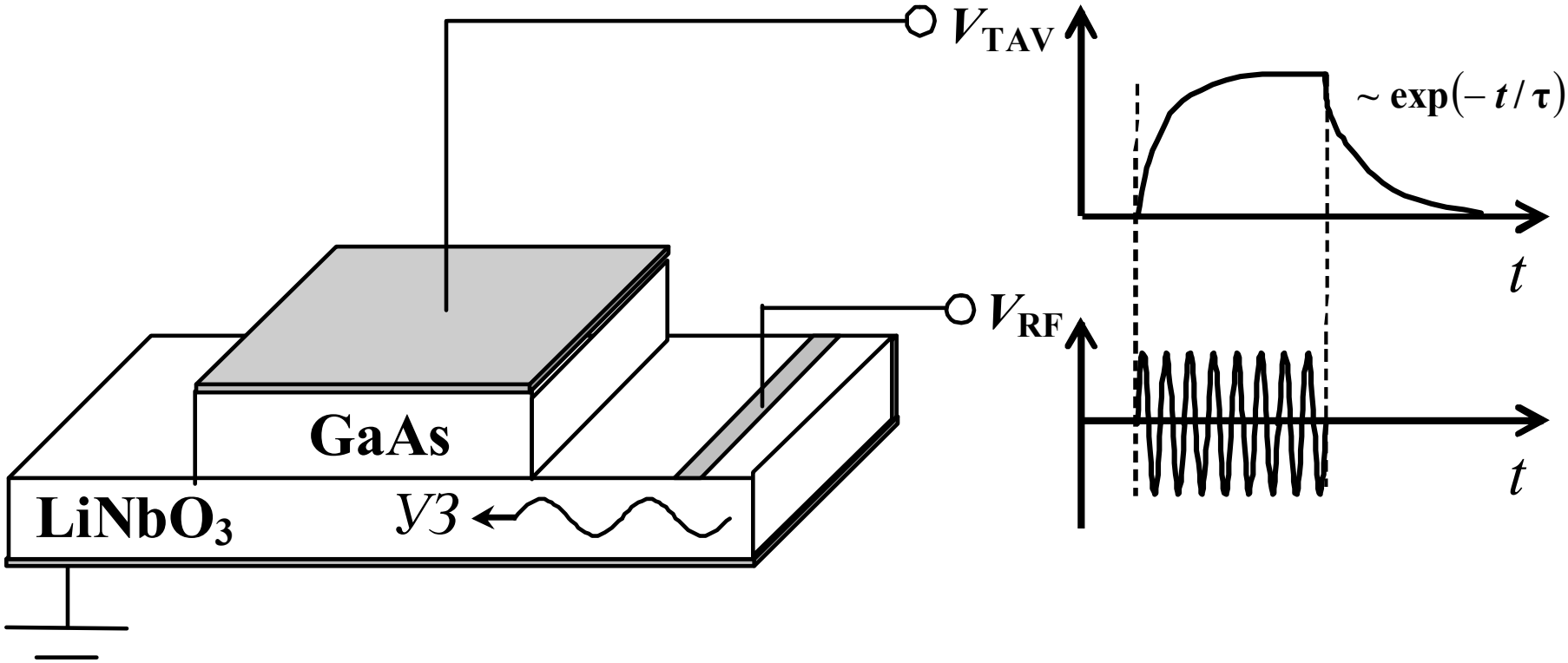
The method of acoustoelectric transient spectroscopy



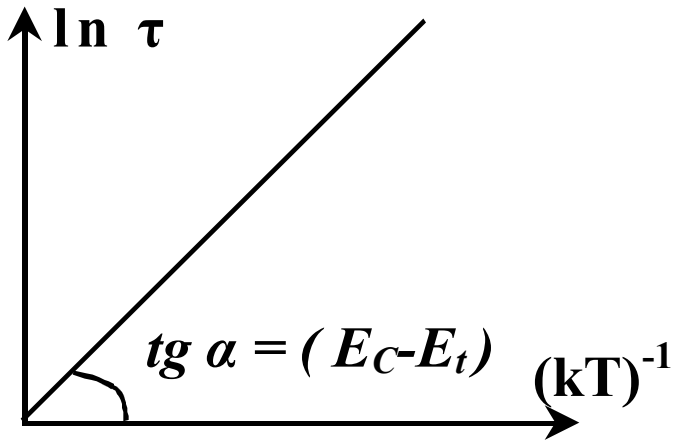
$$\tau = \left(\sigma_n \upsilon_T N_c\right)^{-1} \exp\left(\left(E_C - E_t\right)/kT\right)$$

υ_T – free electron thermal velocity

N_c – effective density of states at the bottom of the conductivity band

σ_n – electron capture cross section

$(E_C - E_t)$ – energy depth of the electronic trap level



Temperature range

290 ÷ 350 K