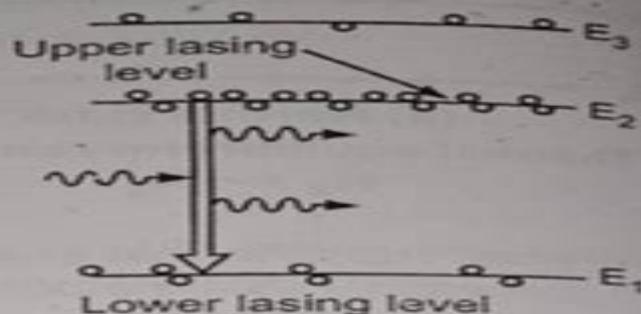


(a) Optical pumping



(b) Lasing action

Fig. 2.10 : A typical three-level pumping scheme

- When the medium is exposed to pump frequency radiation, a large number of atoms are excited to E_3 level. However, they do not stay at excited state E_3 for long time, but rapidly undergo downward transitions to the metastable state E_2 through non-radiative transitions. The atoms are trapped at metastable level E_2 as spontaneous transition from the level E_2 to the level E_1 is forbidden. The pumping continues and after a short time there will be a large accumulation of atoms at the level E_2 . When more than half of the ground level atoms accumulate at E_2 , the population inversion condition is achieved between the two levels E_1 and E_2 . Now, a chance photon of energy, $h\nu = E_2 - E_1$ emitted spontaneously can start a chain of stimulated emission.

3. Four-level Pumping Scheme :

- Consider a typical four-level pumping scheme. In this pumping scheme, the energy level E_1 is the ground level, E_4 is pumping level, E_3 is the metastable upper lasing level and E_2 is the lower lasing level as shown in Fig. 2.11. Here E_2 , E_3 and E_4 are the excited levels.
- When light of pump frequency ν_p is incident on the lasing medium, a large number of atoms are excited to the energy level E_4 . The excited atoms stay at energy level E_4 for very short time about 10^{-8} s and rapidly undergo downward transitions to the metastable level E_3 through non-radiative transitions. The population at the level E_3 grows rapidly. The level E_2 is well above the ground level such that

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