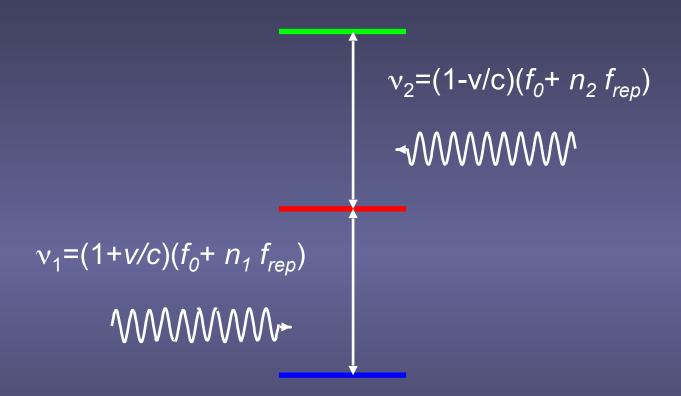








## Velocity Selective Double Resonance



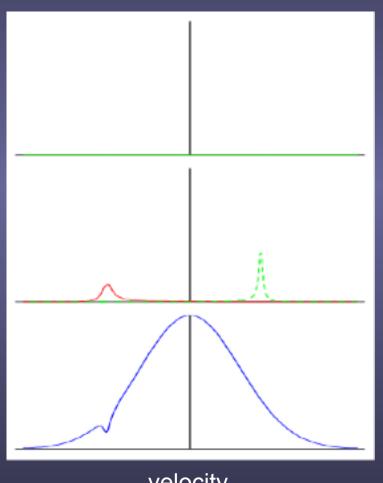
- •Both  $v_1$  and  $v_2$  depend  $f_{rep}$ .
- •Atoms are excited to the final state only when  $f_{rep}$  results in resonance for both transitions for a given speed.
- •Transitions can be excited from atoms with different speeds

## Velocity selective double resonance

Final State Population

Intermediate State Population

> **Ground State** Population



velocity

(Increasing f<sub>rep)</sub>