

# DR. C.V. RAMAN

## NOBEL LAUREATE OF YEAR 1930

Born: 7 Nov 1888,  
in Tiruchilapalli

Died: 21 Nov 1970

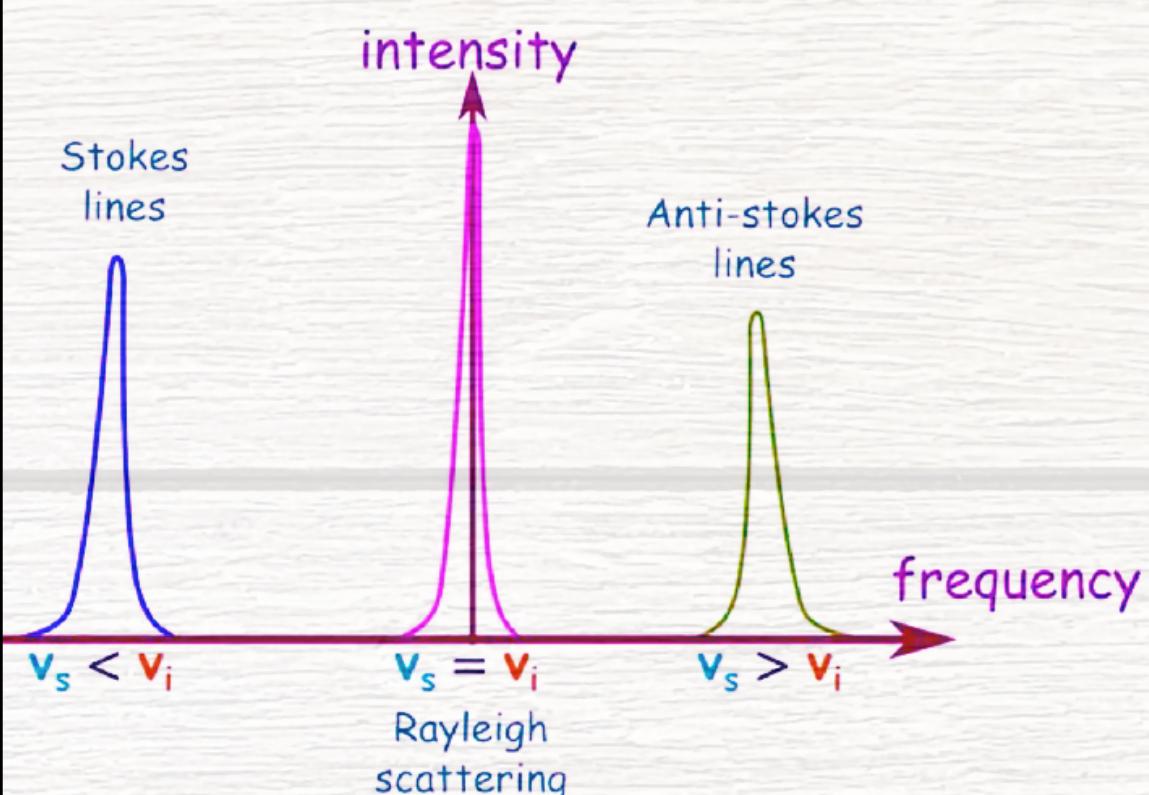


- Won Nobel prize in physics in 1930 for discovering the Raman effect on Feb 28, 1928.
- National Science day is celebrated on Feb 28 every year.

## SCIENTIFIC DISCOVERIES

### WHY IS OCEAN BLUE?

He stated that the water itself caused blue light to scatter more than other colours in the light.



### RAMAN EFFECT

It is the change in wavelength of light that occurs when the beam is deflected by molecules. The scattered beam consists of light of incident frequency and of frequency slightly greater than and less than incident one known as stokes and antistokes lines.

### USES

- In solid-state physics, Raman spectroscopy is used to characterize materials, measure temperature, and find the crystallographic orientation of a sample.
- It is used in the diagnostic of tumours.

M.Sc (Physics) 3rd Sem 2021-22