**Carbon Nanotubes**

Riya Aggarwal

IIS deemed to be a university, Jaipur

riyaaggarwal2130@iisuniv.ac.in

**Abstract:** Carbon Nanotubes are allotropes of carbon with a cylindrical nanostructure. These cylindrical carbon molecules have unusual properties, which are valuable for medical health, pesticides detection, removal of contaminants in drinking water, metal detection, cancer, etc. It is categorised as singled- walled Nanotubes and multi- walled Nanotubes. The chemical bonding of Nanotubes involves entirely $sp^{2}$- hybrid carbon atoms. It is also useful in Photoluminescence.