

12 june 2018

1) Researchers in Germany with the **Karlsruhe Tritium Neutrino experiment** have started collecting data to determine the mass of the universe's lightest particle- **neutrino**. Those are sometimes called "ghost particles" because they're so difficult to detect.

- Neutrinos are the most abundant massive elementary particles in nature. Due to their minimalistic properties they are key particles for understanding physics on the smallest scale (elementary particle physics) up to the largest scale – the universe (cosmology).
- Neutrinos are the only elementary particles of matter, which do not carry electrical or strong charge and thus are blind to the electromagnetic and the strong interaction and cannot be bound.

2) It is a science mission of NASA planned for launch in 2024 that will sample, analyze, and map particles streaming to Earth from the edges of interstellar space. **The Interstellar Mapping and Acceleration Probe (IMAP)** mission will help researchers better understand the boundary of the heliosphere, a sort of magnetic bubble surrounding and protecting our solar system. This is the **fifth** mission in NASA's Solar Terrestrial Probes (STP) Program portfolio.

3) Rail Madad:

It is a recently launched App by Indian Railways which aims to expedite & streamline passenger grievance redressal. It is a part of RPGRAMS (Railway Passenger Grievance Redressal and Management System), which has been developed by Northern Railway (Delhi Division).

4) River Bhavani: Flood alert has been sounded to people living along

River Bhavani banks in Mettupalayam taluk, Tamil Nadu.

- Bhavani River, is a tributary of the River Cauvery originating from the South West Corner of the Nilgiri hills of the Western Ghats in Tamil Nadu. It drains Tamil Nadu, Kerala and Karnataka.
- It is the second longest river in Tamil Nadu. It enters kerala through Palakkad district. It passes through the Silent Valley National Park in Kerala.

5)**Hurricane Bud**:Hurricane Bud is expected to hit the Pacific coast of Mexico.