

THE SCOOP

The August Newsletter is OUT!!

Scientist of the Month

Maria Mitchel

"The world of learning is so broad, & the human soul is limited in power! We reach forth and strain every nerve, but we seize only a bit of the curtain that hides the infinite from us."

Scientist Birthday:

1st August' 1818

Trivia about the scientist

American astronomer who was the first professional woman in the field in the United States. While pursuing an amateur interest, on 1 Oct 1847, she gained fame from the observation of a comet which she was first to report. She was also the first female member of the American Association of Arts and Sciences.



Discovery in the month August, 2019:

Hypothetical Particle Could Be Heavyweight Candidate for Dark Matter:

Almost a quarter of the universe stands literally in the shadows. According to cosmologists' theories, 25.8% of it is made up of dark matter, whose presence is signaled essentially only by its gravitational pull. What this substance consists of remains a mystery.

A Hermann Nicolai, Director at the Max Planck Institute for Gravitational Physics in Potsdam, and his colleague Krzysztof Meissner from the University of Warsaw have now proposed a new candidate - a super heavy gravitino. The existence of this still hypothetical particle follows from a hypothesis that seeks to explain how the observed spectrum of quarks and leptons in the standard model of particle physics might emerge from a fundamental theory. In addition, the researchers describe a possible method for actually tracking down this particle.

Looking at dark matter: this photo is a montage of



several images and shows the colliding galaxy clusters collectively known as the "Bullet Cluster" (1E 0657-56). The galaxies visible in optical light in overlaid with X-rays from the intergalactic gas clouds (pink), as well as the mass distribution calculated from gravitational lensing effects and therefore – indirectly – the dark matter (blue).

Discovery/Invention in the month of July previously:

August 9, 1898: Rudolf Diesel of France was granted patent Number 608,845 for an "internal combustion engine" known as the Diesel engine.

The engine that bears his name set off a new chapter in the Industrial Revolution, but German engineer Rudolf Diesel (1858–1913), who grew up in France, initially thought his invention would help small businesses and artisans, not industrialists. In truth, diesel engines are commonplace in vehicles of all types, especially those that have to pull heavy loads (trucks or trains) or do a lot of work, such as on a farm or in a power plant.

For this one improvement to an engine, his impact on the world is clear today. But his death more than a century ago remains a mystery.

Company of the month:

Cipla:

Headquartered in Mumbai, Cipla is one of the top 10 pharmaceutical companies in India. It develops medicines to treat respiratory, arthritis, diabetes, cardiovascular disease, weight control, depression and several other medical conditions.

Joke of the month:

First man orders "I'd like H₂O". The second man orders "I'd like H₂O too". The second man died.