Contribution ID: **23** Type: **not specified**

# Seven Great Mysteries of Modern Physics: From Black Holes to Parallel Universes

*Thursday 4 July 2024 12:00 (1 hour)*

From the theory of relativity to quantum mechanics; from quarks and the Higgs boson to stars and galaxies, modern physics answers many questions and curiosities about how the world and the Universe are structured, while raising many other, increasingly fascinating questions. I will present seven great mysteries of modern physics: the disappearance of antimatter from
the Universe; the mysterious black holes; the hidden face of the Universe: dark matter and dark energy; research in the field of quantum mechanics related to the famous "Schrödinger's cat"; the structure of neutron stars; the possible existence of parallel universes and worlds; and the Fermi paradox: do extraterrestrials exist? I invite you to discover with me the
fascinating world of modern physics and some of its enigmas, towards new horizons and... perhaps new worlds and universes!

**Presenter:** CURCEANU, Catalina