

Annual meeting of the Swiss Physical Society 2018



Contribution ID: 172

Type: **Talk**

[3] Thorium-Based Systems –A new concept for nuclear waste elimination and energy production.

Tuesday, 28 August 2018 19:30 (1h 15m)

We live in a world where the demand for energy is increasing and where the use of fossil fuels (coal, gas, oil) is threatening the environment. While nuclear power plants produce no CO₂ and no atmospheric pollutants, the issue of the long-standing problem of management of the long-lived nuclear waste is not solved. I will show how Accelerator Driven Systems, using thorium instead of uranium as fuel, represent a feasible solution and are being developed in several parts of the world. The impact of the research in these innovative systems is expected to be very high: spanning from the elimination of the military-grade plutonium, to the transmutation of accumulated nuclear waste, up to the deployment of a safer energy source.

Primary author: Prof. BOURQUIN, Maurice (University of Geneva and iTheC)

Presenter: Prof. BOURQUIN, Maurice (University of Geneva and iTheC)

Session Classification: Public Lectures