

**Science with great intellectual endeavor and a human face**



**La Science qui donne envie  
Une grande aventure scientifique et humaine**

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**A Laboratory of Ideas, Research, Training and Scientific Culture**

***Novelties, Learning and Understanding***

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## **PROGRAMME OF THE YEAR 2022**

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**→ New Physics: Trans-Planckian Physics:**

**New Phase of the Universe, Dark Vacuum Energy and  $H_0$ ,  
Black Hole's Interior and Quantum Space-Time.**

**→ New Physics: keV Warm Dark Matter:**

**Galaxies, Supermassive Black Holes and  
Cosmo-Particle-Nuclear Physics.**

***Research, Submission of Papers, Conferences,***

***Recordings and Publications and "The Best Of" :***

**<https://chalonge-devega.fr/Programme2022.html>**

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