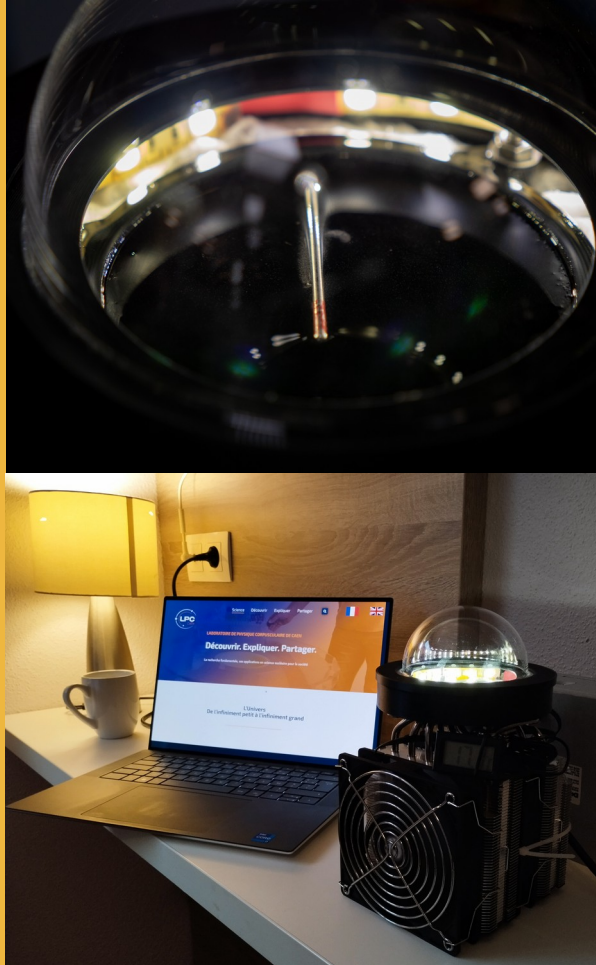


CLOUD CHAMBER

V. PESTEL G. LEHAUT LPC CAEN



Simple, portable, cheap, and easy to build from commercial parts cloud chamber :

- ✂ Pelletier module for cooling
- 🌀 Computer heatsink and fan
- 🔌 500W computer power supply
- 📦 Five 3D printed elements
- 🏠 Commercial acrylic dome
- 🔧 Thermal paste, cables, adapters, LEDs...

We can't see the particles but can we see there footprint ? What can we learn about them from the tracks ? Where do they come from ? Are modern detector built on the same idea ? How is an image represented in a computer ? Can Machine Learning algorithms help in identifying the tracks ? How to share the results between different analysis teams and find a consensus ?