

Latest News from Chooz: Double Chooz & AntiMatter-OTech

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The EDF Chooz nuclear reactor (France) is the most renowned historical source of antineutrinos in Europe for fundamental research, with so far three generations of IBD-based antineutrino experiments: the Chooz and Double Chooz experiments, and, most recently, the AntiMatter-OTech project (under preparation). The latter includes the direct involvement of the EDF reactor operators. The AntiMatter-OTech, funded by and for innovation in Europe (EIC and UKRI), builds on the experience of the Double Chooz's world highest single-detector reactor precision to explore new boundaries of antineutrino detection in the context of reactor instrumentation and monitoring, using the novel LiquidO detection technology — also invented (2012) in the perimeter of Double Chooz. In this talk, I shall summarise the status of the latest, most pertinent Double Chooz results and key elements of the preparation of the AntiMatter-OTech project.

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