

## First evidence of reactor antineutrinos in pure water

*Monday 8 May 2023 16:00 (20 minutes)*

The first evidence of reactor antineutrinos in pure water is achieved in the SNO+ water Cherenkov detector. The nuclear reactors are at least 240 km away. The finding provides the possibility of monitoring the reactors using neutrino detectors with non-toxic, easy-handling and inexpensive material, and extending the research ranges of water Cherenkov detectors.

本研究被 PRL 选为 *Featured in physics* 和 *Editors' suggestion* 亮点论文。这项成果受到了广泛的国际关注, Altmetric-因子为 150 左右。

**Author:** 洋, 张 (Shandong University)

**Presenter:** 洋, 张 (Shandong University)

**Session Classification:** 分会报告 (实验)