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Recent results with use of the PARIS array at the Nuball1 and Nuball2 campaigns in IJCLab

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Since 2016, while PARIS array has been in its initial development phase, one cluster of phoswich detectors has been available for tests and experiments at IJCLab. Hence there has been an excellent synergy between the IJCLab facility and the PARIS detector in its development phase. In 2018, 33 PARIS phoswich detectors (almost 4 clusters) were coupled to the ν -ball1 gamma-ray spectrometer hosted by IJCLab. It was used to study the giant resonance gamma-ray decay in coincidence with low-lying deformed structures. After successful ν -ball1 campaign, in 2022, ν -ball2 started to collect data. PARIS 8 clusters (72 phoswiches) in 'wall' configuration were mounted at IJCLab in October 2022.

In the talk I will present analysis results from the PARIS@ ν -ball1 campaign, as well as preliminary results of experiments performed with use of PARIS@ ν -ball2 since November 2022 till July 2023.

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Classification de thématique: Nuclear Structure