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PARIS gamma calorimeter: idea, status and perspectives

PARIS is an advanced gamma calorimeter designed for high-resolution nuclear spectroscopy, particularly in the study of exotic nuclear properties. The detector system is based on a phoswitch architecture combining high-efficiency scintillators such as LaBr_3(Ce)/CeBr_3 and NaI(Tl), offering good energy and excelent time resolution. The primary goal of PARIS is to enhance the detection capabilities in experiments involving high-energy gamma rays and nuclear structure investigations.

This presentation will outline the fundamental concept behind the PARIS calorimeter, its current development status, and future perspectives. We will discuss the detector design, recent experimental results, and planned upgrades aimed at improving its performance. Additionally, the role of PARIS within large-scale research facilities and collaborations will be highlighted, emphasizing its impact on contemporary nuclear physics.

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