



International Joint Usage/Research Center  
International Research Center of Subatomic Sciences

**Research Center for Nuclear Physics**  
Osaka University



# Accelerating State-of-the-Art Nuclear Physics Research with Big Data Analytics and HPC

Established in 1971, the Research Center for Nuclear Physics (RCNP) at Osaka University is a state-of-the-art institution for research into nuclear physics and its applications. Data from RCNP's ground-breaking experiments is in high demand by researchers all over the world. To provide more than 600 users with seamless access to vast data sets and high-performance analytics, the center replaced its aging nuclear physics computer systems with a new infrastructure built on Lenovo ThinkSystem SD530 and SR630 servers, powered by 2nd Gen Intel® Xeon® Scalable processors. In the future, RCNP is considering using the cloud to augment the organization's on-premises server and storage environment to help them provide computer resources that meet users' needs in diverse fields of research.

"Our goal is to produce results that are useful for solving human problems beyond research, and that means driving the future development of the center by even more effective use of IT."

**Professor Takashi Nakano, Director of RCNP**

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