

A dual-energy electron storage ring is a novel concept initially proposed to cool hadron beams at high energies. The design consists of two closed rings operating at ...

Purpose The physics design of the High Energy Photon Source (HEPS) was finished after many times of iteration. Hereby, the typical equilibrium electron beam parameters ...

This work demonstrates remarkable advances in the overall energy storage performance of lead-free bulk ceramics and inspires further attempts to achieve high ...

The coil spring in the energy storage gear train is in particular used to store low-frequency random vibration energy in the environment and release the energy stored by the ...

In physics, energy density is the quotient between the amount of energy stored in a given system or contained in a given region of space and the volume of the system or region considered. ...

Large-scale high-energy physics experiments generate scientific data at the scale of petabytes or even exabytes, requiring high-performance data IO for processing.

Overview The mission of the High Energy Physics (HEP) program is to understand how the universe works at its most fundamental level by discovering the elementary constituents of ...

In this paper, we extend RNTuple with a backend that uses Intel DAOS as the underlying storage, demonstrating that the RNTuple architecture can accommodate high-performance object stores.

The High Energy Physics (HEP) program is dedicated to unraveling the mysteries of the universe by exploring the fundamental building blocks of matter and energy. Through groundbreaking ...

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High Energy Physics (HEP) Experiments produce large amounts of data. The data produced in these experiments are in the range of terabytes and petabyte...

High-entropy systems can present a range of striking physical properties, but mainly involve metal alloys. Here, using low-energy proton irradiation, a high-entropy ...

A major progress has been made in the construction of the High Energy Photon Source (HEPS), the first

high-energy synchrotron radiation light source in China, with the ...

Dielectric ceramics with high energy storage performance are crucial for advanced high-power capacitors. Atomic-scale investigations determine that introduction of ...

Most of the existing storage systems in the field of high energy physics use file system semantics and cannot natively support object storage. They need to rely on third-party systems such as ...

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