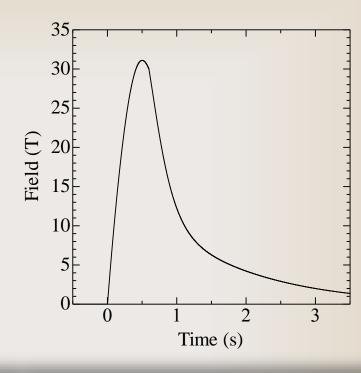


Super Capacitor Bank Operational Test

Energization Test Using Mono Coil Long Pulse Magnet In early June 2023, we performed operational tests.

In the test using the 60MJ bank, we successfully generated a maximum magnetic field of 31.1 Tesla with a charging voltage of 1600V and a maximum current of 7.5kA. The rise time was approximately 0.5 seconds, resulting in a long-pulse magnetic field with a long tail.

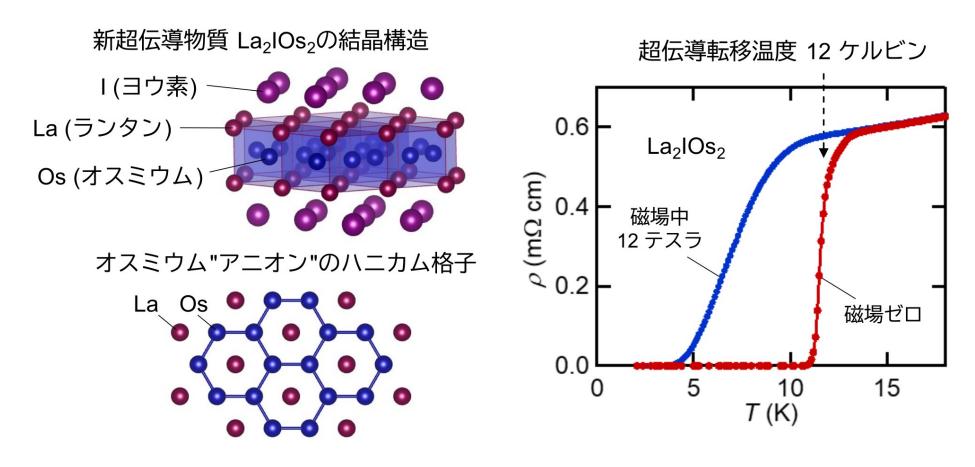
This is the first step towards synchronizing the excitation of the three banks with the three-stage coil.





Discovery of a New Superconductor

We published a paper on the discovery of a new superconductor with high upper critical field. We will perform experiments using our pulse magnet.



"Superconductivity at 12 K in La₂IOs₂: A 5*d* metal with osmium honeycomb layer" H. Ishikawa, T. Yajima, D. Nishio-Hamane, S. Imajo, K. Kindo, and M. Kawamura, Phys. Rev. Materials 7, 054804 (2023).