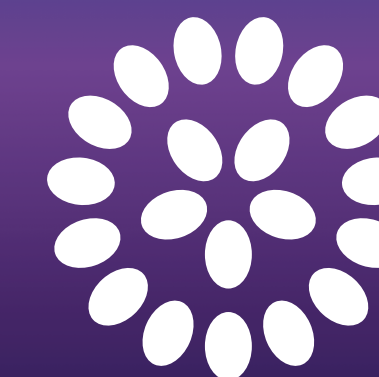


PaN-Finder: Photon and Neutron federated knowledge finder



OSCAR

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The PaN-Finder project aims to enhance the capabilities of the existing PaNOSC Data Portal, which provides researchers access to a wealth of data from Europe's Photon and Neutron (PaN) RIs. The project will introduce an AI-powered search tool that simplifies user interaction, enabling intelligent, prompt-based searches, and which will make it easier for researchers, journalists, and the general public to navigate and utilise valuable PaN data effectively.



PaNOSC
Photon and Neutron Science

Challenge

As the scientific data pool grows, finding relevant and high-quality data becomes increasingly difficult. In the PaNOSC Data Portal, the key challenge lies in improving user interaction and data retrieval efficiency, enabling a wider range of users to navigate the expansive knowledge base effectively.

Solution

PaN-Finder, a prompt based search system, similar to ChatGPT, which will include a UI interface and underlying infrastructure. It will adopt state-of-the-art AI technologies, and pair them with Information Retrieval (IR) and Natural Language Processing (NLP) methodologies.

Scientific Impact

PaN-Finder will increase the adoption rate of the PaNOSC Data Portal, and will significantly improve data findability and accessibility. Furthermore, it will incentivise RIs to provide higher-quality data with well defined metadata, resulting in higher reusability of data.

Partners

European Spallation
Source

<https://www.oscars-project.eu/projects/pan-finder-photon-and-neutron-federated-knowledge-finder>