

**PiAI Seminar Series: Physics informed AI in Plasma Science**  
**10:00-11:00, 30 May 2022 (CET)**  
**17:00-18:00, 30 May 2022 (JST)**  
**Web Seminar**

Supporting data-driven plasma science by implementation  
of the FAIR data principles

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The findability, accessibility, interoperability and reusability of research data in accordance with the FAIR data principles [Wilkinson et al., *Sci. Data* 3:160018 (2016)] is a prerequisite for the broad application of data-driven research methods. Relevant data must be shared with machine-readable metadata that includes information about how the data can be accessed, how it can interoperate with applications or workflows for analysis, storage, and processing, and in what context it can be reused. This is a particular challenge in the fields of cold plasma technology and plasma medicine, where experiments are very diverse, data are heterogeneous, and standard operating procedures hardly exist. In my talk, I will report on ongoing activities aimed at implementing the FAIR data principles in the field of applied plasma science. To this end, we are engaged in the development of documentation standards, data repositories and open laboratory environments to ensure that data in the addressed domain are ready to be reused for data-driven research and technological developments.