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Wf4Ever: Supporting Reuse and Reproducibility in Experimental Science

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Printable Summary

Experimental reproducibility and knowledge sharing and reuse are key in reliable scientific development. The Wf4Ever project addresses these two challenges by proposing models and tools around the concept of workflow-centric research Objects (RO). ROs encapsulate workflows implementing scientific experiments together with the information required to run the experiment and replicate its results, and links it to external resources including both data and services. The notion of RO facilitates a deeper understanding, diagnosis and prevention of workflow decay, especially against changes in external third party resources. Consequently, it supports the maintenance of workflow integrity and therefore its long-term preservation. During this talk we will present the main building blocks around ROs in the Wf4Ever project and will make a quick analysis of the potential impact of these methods and tools in the particular domain of Astrophysics.

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