Search for computational workflow synergies in reproducible research data analyses in particle physics and life sciences

**Flexible**
Run many computational workflow engines

**Scalable**
Support for remote compute clouds

**Reusable**
Containerised once, reuse elsewhere. Cloud-native

**Free**
Free Software. MIT licence. Made with ❤️ at CERN

**Beyond Standard Model physics workflows**
Expressing particle physics analysis workflows in Yadage and CWL

**Conclusions**
- workflow-as-a-service platform with multi engine support (CWL, Serial, Yadage)
- run complex containerised workflows on Kubernetes-orchestrated clusters
- support for diverse compute clouds (Kubernetes, OpenStack)
- direct translation of typical physics data analysis workflows to CWL
- confirmed synergies with computational practices in life sciences and other scientific disciplines

**Usage**
1. Structure your analyses
2. Select a REANA cluster...
3. Run your analysis

**Architecture**
Built on micro-services
RESTful APIs
Leveraging the power of open source

**Multi-cascading map-reduce**
Advanced Yadage workflow concepts require CWL scatter-gather extension

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