



ODIN proof of concept: INSPIRE

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What is INSPIRE?

- Digital library in High-Energy Physics

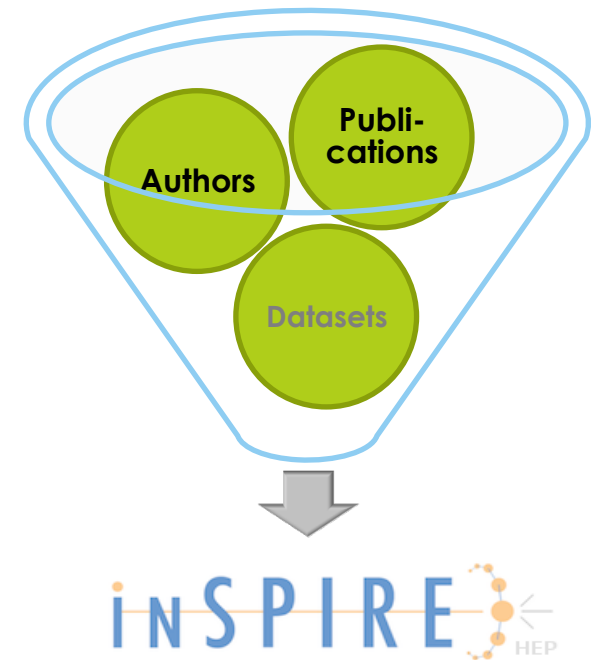
- And an information hub:

- Pre-prints
 - Published papers
 - Authors
 - Data

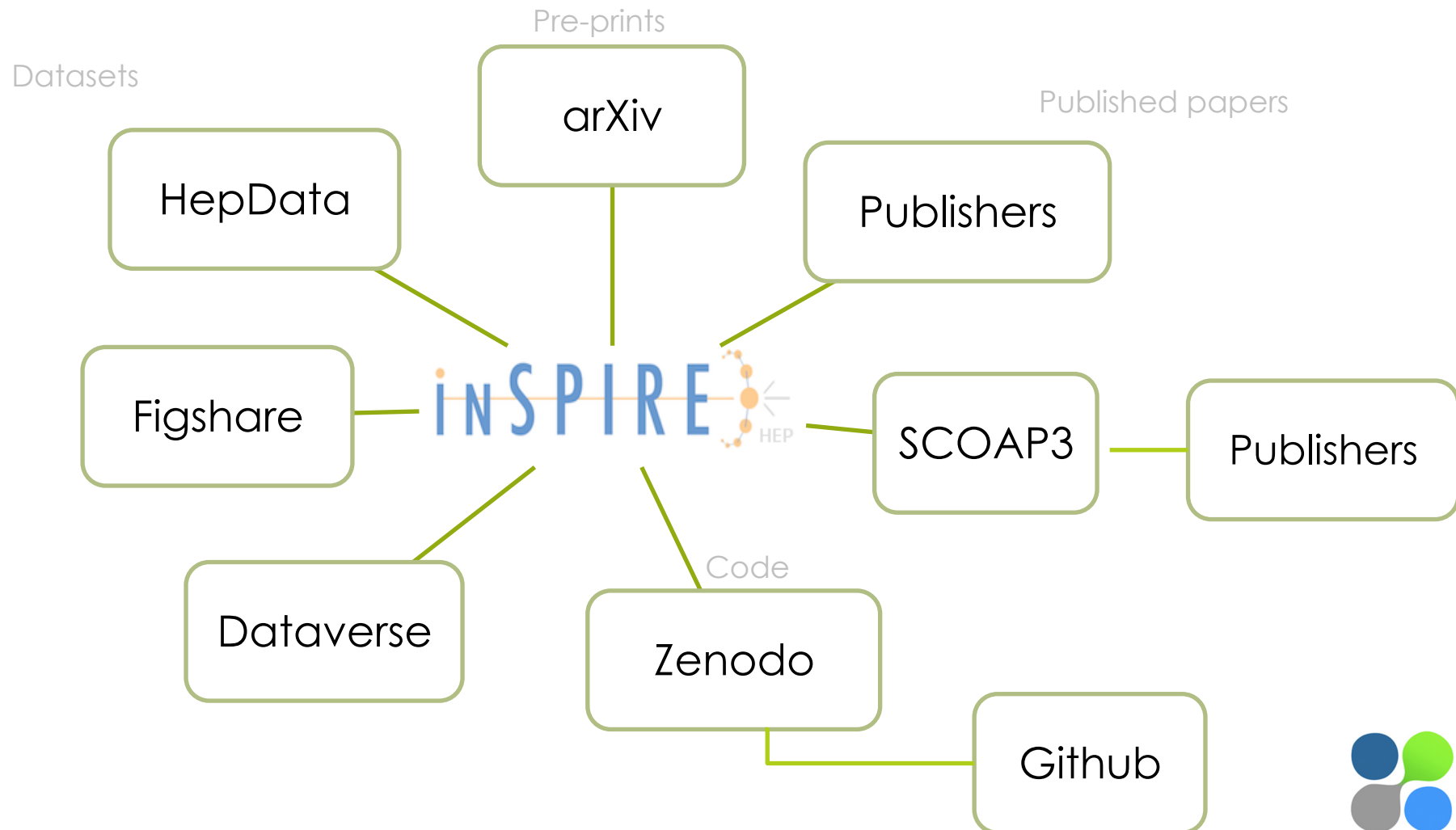
Linked!

- Some numbers:

- 1.000.000 publications
 - 100.000 authors
 - 50.000 datasets
 - And institutions, conferences, journals, job offers...



How does it work?



An example...



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Four

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Data from Figure 7 from: Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC

ATLAS Collaboration ([Aad, Georges \(Freiburg U.\) \[...\]](#)) [Show all 2923 authors](#)

One

Cite as: ATLAS Collaboration (2013) HepData, <http://doi.org/10.7484/INSPIREHEP.DATA.26B4.TY5F>

Two

Description: -2 log Likelihood for the $H \rightarrow WW^* \rightarrow l\nu l\nu$ channel in the $(\mu_{ggF+ttH} * B/BSM, \mu_{VBF+VH} * B/BSM)$ plane for a Higgs boson mass $m_H = 125.5$ GeV.

Preview not available

Note: * Temporary entry *

This dataset complements the following publication:
[Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC](#)

Three

Record created 2013-09-11, last modified 2013-12-16



Cranmer, Kyle S.

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2014-05-20 14:11:33

PERSONAL INFORMATION

Personal Details (HepNames)

Name	Kyle S. Cranmer
Current Institution	New York U.
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Links	http://physics.as.nyu.edu/obje... http://twitter.com/KyleCranmer... http://theoryandpractice.org/
Fields	HEP-EX HEP-PH PHYSICS
Experiments	FNAL-E-0830 CERN-LHC-ATLAS CERN-LEP-ALEPH FNAL-TEV-CDF
Identifiers	INSPIRE: INSPIRE-00074922 ARXIV: ARXIV-CRANMER-K-1 CERN: CERN-538804 ORCID: 0000-0002-5769-7094 BAI: K.S.Cranmer.1

Period	Rank	Institution
1995 – 1999	UG	Rice U.
1999 – 2005	PHD	Wisconsin U., Madison
2005 – 2007	PD	Brookhaven

PUBLICATIONS AND OUTPUT

Publications **Two** [Datasets](#) [External](#)

1. Supplementary Material for "A Novel Approach to Higgs Coupling Measurements"
2. decouple software associated to arXiv:1401.0080
3. Code associated to "Kernel Estimation in High Energy Physics"
4. Data from figure 6 from: Measurement of charged-particle event shape variables in $\sqrt{s} = 7$ TeV proton-proton interactions with the ATLAS detector
5. Data from figure 6 from: Measurement of charged-particle event shape variables in $\sqrt{s} = 7$ TeV proton-proton interactions with the ATLAS detector
6. Data from figure 5 from: Measurement of charged-particle event shape variables in $\sqrt{s} = 7$ TeV proton-proton interactions with the ATLAS detector
7. /record/1269077
8. Additional data from: Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC
9. Additional data from: Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC
10. Additional data from: Measurements of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector at the LHC

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[more](#)

Papers

	All papers	Single authored
All papers	446	10
Book	0	0
ConferencePaper	28	8
Introductory	0	0
Lectures	0	0
Published	366	2
Review	5	0
Thesis	1	1
Proceedings	1	0

STATS

Three Citations Summary

446 papers found, 436 of them citeable (published or arXiv)

	Citeable papers	Published only
Number of papers analyzed:	436	366
Number of citations:	31380	29280
Citations per paper (average):	71	80
h_{HEP} index [?]	77	76

Breakdown of papers by citations:

	Citeable papers	Published only
Renowned papers (500+)	7	6
Famous papers (250-499)	10	10
Very well-known papers (100-249)	39	37
Well-known papers (50-99)	82	82
Known papers (10-49)	200	190
Less known papers (1-9)	68	38
Unknown papers (0)	30	3

Warning: The citations count should be interpreted with great care.
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Personal information

Biography

Kyle Cranmer is an Associate Professor of Physics at New York University's Center for Data Science. He is an experimental particle physicist at the Large Hadron Collider, based in Geneva, Switzerland. Professor Cranmer received his M.S. in Physics from the University of Wisconsin-Madison in 2005 and his B.A. in Mathematics from the University of Wisconsin-Madison in 2007, he was awarded the Presidential Early Career Award for Scientists and Engineers via the Department of Energy's Office of Science and the National Science Foundation's Career Award. Professor Cranmer develops statistical modeling, which was used extensively for the discovery of the Higgs boson. Associate professor of physics at NYU.

Education

University of Wisconsin Madison (2000 to 2005)
PhD

Rice University (1995-09 to 1999-05)
B.A.

Employment

New York University (2007-09 to present)
Associate Professor

Works

Data from Figure 7 from: Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC 2013-09

One

Very soon... !

ORCID

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?

LINK WORKS

X

Australian National Data Service (ANDS) Registry

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PUBLIC svenkreiss / decouple ★ Star 2 🍴 Fork 2

Decouple and recouple.

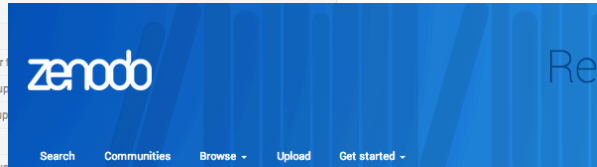
44 commits 4 branches 9 releases 1 contributor

tag: v1.2.5 decouple / +

Add Attribution and License section.

svenkreiss authored on 6 de mar latest commit: 170cb0fd87

- Decouple Pull the 'scripts' out of the Decouple module and in separate 'script...' 3 months ago
- ModelGenerators Pull the 'scripts' out of the Decouple module and in separate 'script...' 3 months ago
- Plot Update to work with latest version of PyROOTUtils (mostly the new way... 3 months ago
- output Init public repo.
- plots Init public repo.
- plotsForPaper Finer scan of robustness. Larger f...
- scripts Pull the 'scripts' out of the Decou...
- .gitignore Remove local LHCHSHiggsCoupl...
- LICENSE First version to work with pip.
- Makefile Pull the 'scripts' out of the Decou...
- README.md Add Attribution and License secti...
- requirements.txt New PyROOTUtils version with in...
- requirements_dev.txt New PyROOTUtils version with in...



07 March 2014

decouple software associated to arXiv:1401.0080

Cranmer, Kyle ; Kreiss, Sven

(show affiliations)

This repository contains the software implementation for our paper A Novel Approach to Higgs Coupling Measurements (Cranmer, Kreiss, Lopez-Val, Plehn), arXiv:1401.0080 [hep-ph]. It contains tools to apply the discussed methods to new models and contains a Makefile to recreate the plots in the paper.

A demo for the recoupling stage where the effective likelihood and template parametrization are readily provided is at decoupledDemo.

Files		
Name	Date	Size
decouple-v1.2.5.zip	08 Mar 2014	265.6 kB
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Information Citations (0) Files

decouple software associated to arXiv:1401.0080

Cranmer, Kyle; Kreiss, Sven (New York University)

Cite as: (2013) Zenodo, <http://doi.org/10.5281/zenodo.8475>

Description:

This repository contains the software implementation for our paper **A Novel Approach to Higgs Coupling Measurements** (Cranmer, Kreiss, Lopez-Val, Plehn), arXiv:1401.0080 [hep-ph]. It contains tools to apply the discussed methods to new models and contains a Makefile to recreate the plots in the paper.

A demo for the recoupling stage where the effective likelihood and template parametrization are readily provided is at decoupledDemo.

This dataset complements the following publication:
[A Novel Approach to Higgs Coupling Measurements](#)

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Publication date:
07 March 2014
DOI
[10.5281/zenodo.8475](https://doi.org/10.5281/zenodo.8475)
Keyword(s):
[Higgs](#) [theoretical uncertainty](#) [statistical combination](#)

