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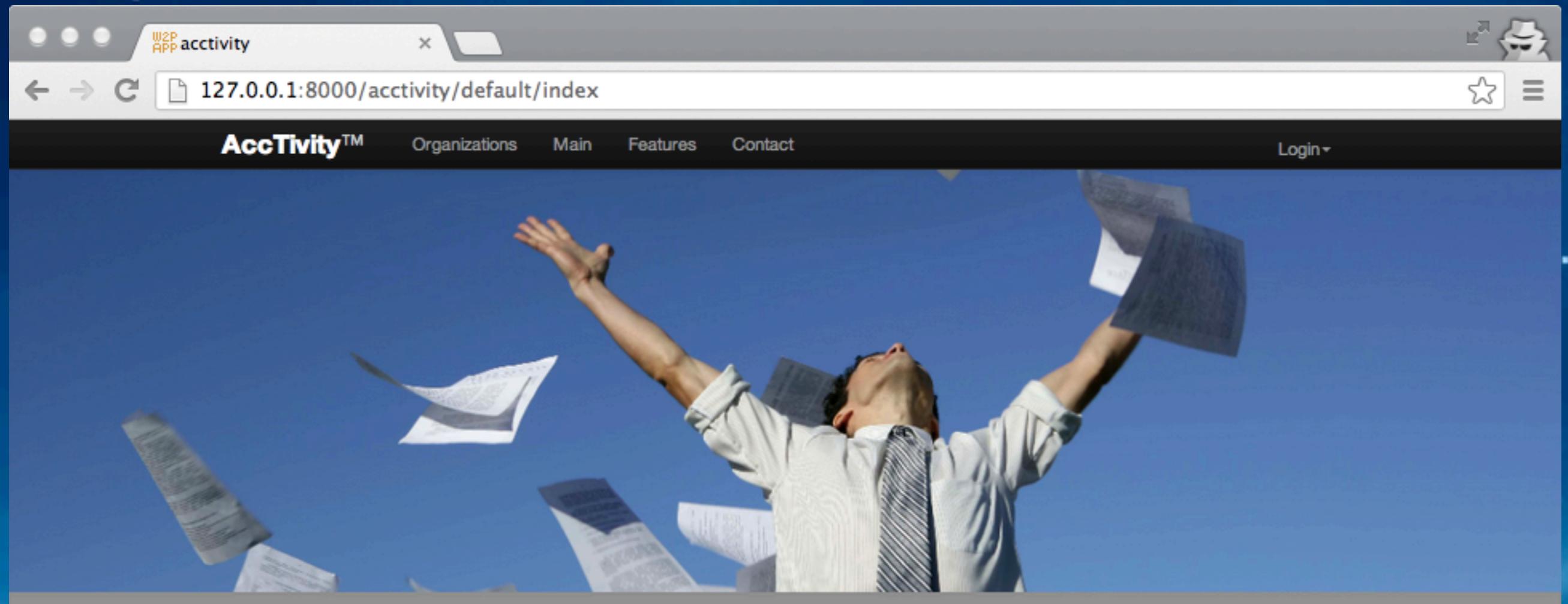
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The screenshot shows a web browser window with three tabs open. The active tab is titled '127.0.0.1:8000/acctvity/default/tag/python'. The page content is a search interface for users based on a tag. A dropdown menu on the left lists various user fields, with 'First name' selected. The main search area contains a search bar with the value 'python', a 'Search' button, and a 'Clear' button. To the right of the search bar are buttons for 'New', 'And', 'Or', and 'Close'. Below the search bar, a message indicates '1 records found'. A table displays one user record: 'Last name' is 'Pierro' and 'Username' is 'massimo.dipierro'. Under the 'Tags' column, two buttons are shown: 'python' and 'cpp'. Handwritten-style annotations are present: a red circle highlights the word 'python' in the search bar, another red circle highlights the 'python' tag in the user's tag list, and a large red arrow points from the search bar annotation to the user's tag list annotation. The browser's address bar shows the URL '127.0.0.1:8000/acctvity/default/tag/python'.

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Link: <http://arxiv.org/abs/1202.4813>

Contribution Type: Journal Article

Explanation of "Other":

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  volume      = "D86",
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A. Bazavov¹, C. Bernard², C. M. Bouchard^{3,4,5}, C. DeTar⁶, M. Di Pierro⁷, A. X. El-Khadra³, R. T. Evans^{3,8}, E. D. Freeland^{3,9}, E. Gámiz^{4,10,*}, Steven Gottlieb¹¹, U. M. Heller¹², J. E. Hetrick¹³, R. Jain³, A. S. Kronfeld⁴, J. Laiho¹⁴, L. Levkova⁶, P. B. Mackenzie⁴, E. T. Neil⁴, M. B. Oktay⁸, J. N. Simone⁴, R. Sugar¹⁵, D. Toussaint¹⁶, and R. S. van de Water¹ (Fermilab Lattice and MILC Collaborations)

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High Energy Physics – Lattice

QCDUtils

Massimo Di Pierro
(Submitted on 22 Feb 2012)

This manual describes a set of utilities developed for Lattice QCD computations. They are collectively called QCDUtils. They comprise a set of Python programs each of them with a specific function: download gauge ensembles from the public NERSC repository, convert between formats, split files by time-slices, compile and run physics algorithms, generate visualizations in the form of VTK files, convert the visualizations into images, perform bootstrap analysis of results, fit the results of the analysis, and plot those results. These tools implement the typical workflow of most Lattice QCD computations and automate it by enforcing filename conventions: the output of one tool is read by the next tool in the workflow. This manual is organized as a series of autonomous recipes which can be combined together.

Subjects: High Energy Physics – Lattice (hep-lat)
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