

OSSR Onboarding - Integration #37

Onboarding: gLike

04/29/2021 10:34 PM - Jutta Schnabel

Status:	In Progress	Start date:	04/14/2021
Priority:	Normal	Due date:	
Assignee:	Jutta Schnabel	% Done:	70%
Category:		Estimated time:	0.00 hour
Target version:	OSSR primer	Video recording:	https://www.youtube.com/watch?v=I-LPB-CIOXY
Documentation:	https://github.com/javierrico/gLike#readme	Zenodo entry:	https://zenodo.org/record/5888553
Meeting contribution:	https://indico.in2p3.fr/event/23753/contributions/94468/		
Description			
<p>gLike is a general-purpose ROOT-based code framework for the numerical maximization of joint likelihood functions.</p> <p>The joint likelihood function has one free parameter (named g) and as many nuisance parameters as wanted, which will be profiled in the maximization process.</p> <p>Follows a non-exhaustive list of examples where gLike is useful (in order of increasingly complexity):</p> <ul style="list-style-type: none">• Estimating the number of signal events (with uncertainties) in a dataset whose background content is in turn estimated from an independent measurement in a signal-free control-region.• Same as before, but considering in addition a systematic uncertainty in the estimation of the background.• Estimating the intensity of a steady source of signal particles in the presence of background particles from datasets obtained under different experimental conditions.• Same as before, but each dataset actually comes from a different instrument and in different data format.• Estimating the dark matter annihilation cross-section combining observations of dwarf spheroidal galaxies by different ground-based gamma-ray telescopes, satellite gamma-ray detectors, neutrino telescopes,• Estimating the energy scale of quantum gravity by combining observations of fast gamma-ray flares observed by different ground-based gamma-ray telescopes.			
Related issues:			
Related to ESFRI: CTA - Product #143: Software: gLike		New	

History

#1 - 04/29/2021 10:34 PM - Jutta Schnabel

- File *Survey_glike.yml* added

#2 - 04/29/2021 10:35 PM - Jutta Schnabel

- Status changed from *New* to *In Progress*

#3 - 06/22/2021 05:02 PM - Jutta Schnabel

- Meeting contribution changed from <https://indico.in2p3.fr/event/23753/#1-onboarding-glike-likelihood> to <https://indico.in2p3.fr/event/23753/contributions/94468/>

#4 - 07/09/2021 08:42 AM - Anonymous

- Description updated

#5 - 12/03/2021 09:24 AM - Anonymous

- Documentation set to <https://github.com/javierrico/gLike#readme>

#6 - 12/03/2021 10:36 AM - Cosimo Nigro

- Description updated

#7 - 12/03/2021 10:48 AM - Cosimo Nigro

- Description updated

#8 - 01/28/2022 10:11 AM - Jutta Schnabel

- Status changed from In Progress to Closed

#9 - 01/28/2022 10:14 AM - Thomas Vuillaume

onboarded:

<https://doi.org/10.5281/zenodo.5888553>

#10 - 02/23/2022 11:27 AM - Jutta Schnabel

- Related to Product #143: Software: gLike added

#11 - 02/23/2022 11:30 AM - Jutta Schnabel

- Zenodo entry set to <https://zenodo.org/record/5888553>

- Video recording set to <https://www.youtube.com/watch?v=I-LPBCI0CXY>

- Assignee set to Jutta Schnabel

- Status changed from Closed to In Progress

- Description updated

- Tags set to OSSR Onboarding, CTA

Files

Survey_glike.yml	1.28 KB	04/29/2021	Jutta Schnabel
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