Automation of creation of public material: progress report

Frank Filthaut (Radboud University and Nikhef, Nijmegen, NL)

Recapitulation

Discussed during January CM: import & adapt ATLAS software (all Python based) to prepare web pages featuring material (figures, tables) in publications

Two steps:

1. Extraction of tables, figures and corresponding captions

2. Integration into a web page that is to be made public

- Possibility for "embargo": restriction of visibility to DUNE

Tested on the LBL sensitivity paper

Extracting material from sources

Bottom line: essentially working

- Minor tweaking will presumably remain necessary, but this should not be demanding

  • Home-brewn code to convert LaTeX macros into html code, functional but does not do a perfect job (this is one of the reasons for wanting the "embargo" functionality)

- Figures: assumes that subfigures are all numbered (a), (b), … not necessarily in agreement with the "left" / "right" used

Web page creation

Mostly working (test output on my laptop)

Long-baseline neutrino oscillation physics potential of the DUNE experiment

Formatting issues: lacking css, JavaScript

Contact: *Elizabeth Worcester*

| Content	Preview
Figures Tables	-
Figures	

Figure 01a:
The appearance probability at a baseline of 1300km, as a function of neutrino energy, for δ_{CP} = -π/2 (blue), 0 (red), and π/2 (green), for neutrinos (top) and antineutrinos (bottom), for normal ordering. The black line indicates the oscillation probability if θ_{13} were equal to zero.

png (133 kB)   pdf (54 kB)

Figure 01b:
The appearance probability at a baseline of 1300km, as a function of neutrino energy, for δ_{CP} = -π/2 (blue), 0 (red), and π/2 (green), for neutrinos (top) and antineutrinos (bottom), for normal ordering. The black line indicates the oscillation probability if θ_{13} were equal to zero.

png (130 kB)   pdf (54 kB)
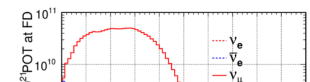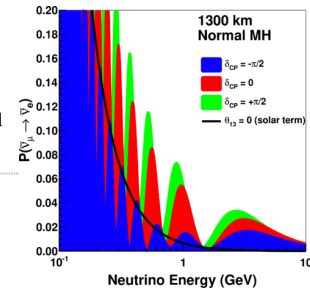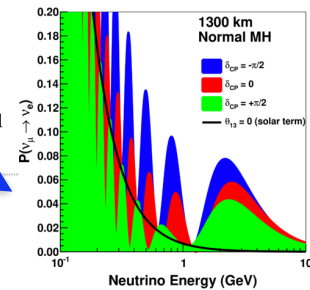
Technicalities to be sorted out

Hosting the software and having a location on the Fermilab DUNE web pages

- Authorisation & implementation of embargo to be sorted out
- Sent e-mail to Mike Kirby but no reply yet

Customising the output

- Requires css (and presumably JavaScript), will require some -presumably minor- code modifications to exploit these (s/w uses jinja templates; relatively easy to adapt)
- Not my specialty, and suspect that Fermilab will want to have a say in this anyway ➠ to whom can I pass this on?

Technicalities to be sorted out (cont'd)

Metadata: should add arXiv & publication information

- Can enter all of this in input CSV file, but more automation is conceivable (e.g. retrieval from docdb if available there)
- Will require some code modifications / additions in either case

Ref Code	Full Title	datetag	arXiv	email_address	email_label	DOI publication	DOI erratum
16877	Long-baseline neutrino oscillation physics potential of the DUNE experiment			etw@bnl.gov	Elizabeth Worcester		

Policy item:

- Do we want to list a contact person? If so, should that be a generic address (e.g. dune-physics-coordinators@fnal.gov) or a specific one (e.g. main paper author)?