

Genie User Forum

20 March 2019



UNIVERSAL NEUTRINO GENERATOR
& GLOBAL FIT


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On behalf of the GENIE collaboration

Forum Attendance

- Last time attendance was very poor
 - Not many experiment liaisons were present
 - Some were announced, what about the others?
 - Should we reconsider the frequency of the forum?
 - Bi-monthly?
- I advise to have a look at the slides from last time
- In case the problem is the time, I suggest to update the doodle
 - <https://doodle.com/poll/tn5nu4nn3y38m39k>



Genie Updates



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GENIE Forum - M. Roda

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CCQE event generator

- Microboone analysers and Stephen Dolan
 - have noticed different forms of an issue related to CCQE event generation and binding energies
- The importance of the matter called for task force to release ASAP a bug fix, namely v3.0.4
 - This will contain:
 - The fix for the binding energy
 - The fix for the pion angle distribution in Delta decay (see last time)
 - Other minor fixes

Drawbacks

- The fixes had a number of drawbacks
 - Splines need to be re-evaluated
 - Robert Hatcher will provide a release
 - Spline generation is a bit slower
 - CCQE Nieves model
 - CCQE Llewellyn Smith model
 - CC MEC Empirical MEC model
 - Event generation is slower for CCQE
 - About 0.5 s per event for Llewellyn Smith
 - About 1 s per event for Nieves
- We think it's manageable and we obviously prefer the correct physics
 - Possibilities for improvement are under evaluation
 - Not released in v3.0.4

Enter

- Last time Microboone people asked some question about communications
- Here are the answers after some thoughts. Worth sharing with the community
 - What are GENIE's preferred communication methods for users who want to
 - Ask for basic help (building GENIE, running the code)
 - NEUTRINO-MC-SUPPORT@JISCMail.AC.UK is the answer
 - Also, before sending an email check website and manual: there are a lot of instructions
 - Report problems
 - NEUTRINO-MC-SUPPORT@JISCMail.AC.UK
 - Specific developers: if you know what causes the issues the developers are usually listed in the header files
 - GitHub (issues)
 - Small enhancements
 - There is no such a thing like "small enhancement", the framework is too complicated
 - Incubator projects
 - If you really believe there is a very tiny and harmless enhancement send an email to the main developers and we will think if the enhancement is as harmless as you think it is
 - Submit bug fixes
 - Git hub pull request and provide details in the pull request
 - NEUTRINO-MC-SUPPORT@JISCMail.AC.UK or costas to coordinate the bug fix
 - Does it make sense for GENIE to designate an "issue tracker moderator" for GitHub?
 - Yes, in fact there is. It's Costas