
Subject: Re: Evtgen - prob>probmax

Posted by [MartinJGaluska](#) on Wed, 06 Jun 2012 13:07:47 GMT

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I was very pleased as well that they replied. :)

With instructions of Anders Ryd I was able to adapt the decay model. As I do not have a very deep understanding of the algorithm used to simulate the physics of this specific decay, I have just translated the verbal instructions given to me into EvtGen code. The code seems to work and gives for the decay of $\psi(2S)$ a similar value as the hard coded one used before: With the $\psi(2S)$ mass of 3.68596 GeV in evt.pdl, I get a ProbMax of 0.0724191 (which looks reasonably close to the 0.08 which was hard-coded there before) and with a mass of 3.872 GeV the result is 0.273432.

Anders suggested I should submit the changes to the maintainers of the EvtGen code at Warwick who I have just contacted via email in order to tell them about the changes and hear their opinion. If everything is fine, I would like to ask Björn to submit the changes to svn.
