Subject: Re: Evtgen - prob>probmax
Posted by MartinJGaluska on Mon, 04 Jun 2012 12:57:13 GMT
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I have just received an answer by Anders Ryd (one of the original authors of EvtGen). It seems that Stefano was right all along and the event is discarded in favor of another one with a different kinematic configuration. Here is the email reply I got:

Quote: Dear Martin,

you should not ignore these messages; it means that the calculated probability for the decay is larger than the maximum assumed for this process. The effect of ignoring this is that the most likely kinematic configurations will be underrepresented in your sample.

The maximum probability (0.08) is calculated assuming the psi(2S) mass. When you decay that
X(3872) the probabilities can be larger. You should adjust the maximum probability accordingly.
The maximum probability is set in the method:

void EvtVVpipi::initProbMax() {

  //Hard coded... should not be hard to calculate...
  setProbMax(0.08);

}

(As you can see from the comment it would be desirable to calculate the correct maximum probability, but this was never implemented. Maybe you would feel motivated to do this?)

 -Anders