Subject: Re: Fitters and hyperons
Posted by Ralf Kliemt on Mon, 13 Mar 2017 09:02:57 GMT
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Hi Karin,

I'll go by the numbers. However, I attached an overview (from back in 2014) on the fitters which you may find interesting.

1) Our Vertex fit is properly tested with min. two helices. Neutrals were just attached to the vertex, but not included in the fit. The addition of the neutrals in the PndKinVtxFit has to be re-checked.

2) The treefitter is prepared to fit neutrals as lines and charged particles as approximated lines (to be revisited) close to a pre-calculated vertex. Setting mass constraints of narrow states is favorable.

3) The 4C fit does not care about vertices. Every particle should have been propagated on its trajectory to its creation point. The 4C fit does only use the four-momenta of the final state particles. You can make a combined particle being treated as final state particle by using Lock().

Cheers!
Ralf

File Attachments

1) RhoFitterBase1.png, downloaded 340 times