
Subject: Re: question concerning $p\bar{p} \rightarrow \pi^0 \pi^0$
Posted by [Jens Sören Lange](#) on Tue, 04 Dec 2007 06:02:21 GMT
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Dear all,

no parametrization, but at least a few cross section numbers
in the 2-4 GeV region: (but one can see an energy dependance)

<http://durpdg.dur.ac.uk/cgi-bin/hepdata/testreac/10738/FULL/q>
<http://durpdg.dur.ac.uk/cgi-bin/hepdata/testreac/7414/FULL/q>
<http://durpdg.dur.ac.uk/cgi-bin/hepdata/testreac/3008/FULL/q>

Please note that Irina is using EvtGen which fixes the initial state to $J=1$ (so the $J=0,2,3,4,\dots$ are missing in her simulation, but are in the above cross section numbers). But currently there is no way to avoid this (and nobody knows the exact angular momentum mixture in the initial state anyway before Panda starts running).

Furthermore, her EvtGen does (right now) not take into account intermediate resonances, such as the $f_0(980)$ (which we know must be there in $\pi^0 \pi^0$).

Soeren
