
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
