
Subject: Re: PANDA ToF Task Force Questions

Posted by [Bertram Kopf](#) on Tue, 14 Jul 2009 12:03:56 GMT

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Dear Klaus,

Klaus Föhl wrote on Tue, 07 July 2009 17:58

Here in Giessen we are interested in the reactions $p\text{-bar } p$ going to $\gamma\gamma$ and also $p\text{-bar } p$ going to $\gamma\pi^0$. It is the inverse reaction to (virtual) $\gamma\gamma$ going to $p\text{-bar } p$ which has been measured at Belle and also cross channel to Compton scattering.

Our current simulations show that from the statistics and background we are close to the feasibility limit in PANDA. Any further material upstream of the EMC acts as a pre-shower component and degrades the EMC performance.

Hence we suggest to include these two physics channels into the simulation programme for the RPC ToF detector assessment.

those studies have been done and already presented at the last Collab. Meeting for the $\gamma\gamma$ channel. You can find the results on page 12 and 13 of my presentation in the TB session.

Best regards,
Bertram.
