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Subject: Re: PANDA ToF Task Force Questions  
Posted by [Klaus Föhl](#) on Tue, 07 Jul 2009 15:58:24 GMT  
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Dear colleagues, dear Lars, dear Stan,

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.

Best regards from Giessen

Klaus (Föhl)

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