

Hyperon Meeting 2015-05-12

Participants: Albrecht Gillitzer, Andreas Herten, André Zambanini, Jennifer Puetz, Lia Lavezzi, Michael Papenbrock, Walter Ikegami-Andersson, Stefano Spataro, Dariusch Deermann, Tord Johansson, , Jacek Biernat, Karin Schönning

1. The PANDA meeting in Uppsala: There will be one hyperon session on Monday afternoon (1 1/2 hours). Those who want to give a talk should contact Karin. Only Jacek Biernat has signed up so far and he will give his presentation via SeeVogh.

2. Talk by Jacek Biernat on $p\bar{p} \rightarrow \Lambda(1520) \bar{\Lambda}(1520), \Lambda(1520) \rightarrow e^+e^-$. The focus is how bremsstrahlung affects the reconstructed momenta of the electron and the positron. When bremsstrahlung is corrected for, the $p_{MC} - p_{reco}$ distribution becomes symmetric. The $e^+e^- \Lambda$ invariant mass becomes a little shifted towards lower masses if bremsstrahlung is not accounted for, but with correction, the expected mass is reconstructed.

It was also concluded that the momentum resolution is getting worse at low e^+e^- momenta, and it was suggested that one instead considers the $\bar{\Lambda}(1520) \rightarrow e^+e^-$ decay for a forward boosted angular distribution, similar to the one observed for the ground state hyperons Λ and Σ .

3. Talk by Karin Schönning on the new publication policy. There was some feedback from the group:

- * Reference to MC data: it was questioned whether large MC sets should be stored at all and most people are not aware of the procedure - where to store, what kind of data that should be stored, who is authorized to do so etc.

- * Instead of adding non-standard analysis code to the analysis note one could make it "good practise" to check in such tools at some place where it is available to everyone, and maybe just add instructions how to use those tools in the note.

- * It was confusion about the difference between an analysis note and a release note. This should be explained more clearly in the wiki page.

4. A.O.B.: André presented his latest findings from his $p\bar{p} \rightarrow \Xi^*\bar{\Xi}$ study. The ideal track finder assigns GEM hits wrongly and the suspicion is that this is due to an incompatibility with FairLinks. This is rather a computing issue than a hyperon issue and it was therefore suggested that this should be discussed in a common computing meeting.

5. A.O.B. There is a wish to broadcast the hyperon session at the PANDA meeting via SeeVogh. Karin will investigate the possibilities.