PWG HF minutes, April 22, 2021

Upsilon production in pp collisions at 500 GeV - Leszek Kosarzewski

- s18 : is chi2 calculated for all points ? A: yes
  Since ndf is small, suggest to add p value
- Maybe the number of figures proposed for the paper can be reduced, depending if they help in bringing anything new in terms of the physics message. A: will have a look and consider available space in a paper.
- s27 - what is the reason for the deep structure in the y distribution - can there be an issue with efficiency ? A: This was checked - the efficiency was calculated for y ranges and it looks fine, the issue might be with the signal extraction, statistics for 3S signal is rather.
- s27: Shouldn't then be uncertainties be large on the signal extraction, on the plot it doesn't look like. A: The uncertainty is not so small, it may be just a visual effect because of the plotting.
- s27: We should be careful about the message regarding a dependence. A: yes, probably dependence cannot be claimed.

Inclusive J/psi production at 54.4 GeV - Kaifeng Shen

- s4: Why is the fit (red curve) above the data points ? A: maximum is fitted.
- s9. BEMC matching efficiency, how do you deal with the difference between data and embedding, and why the unc. is so small ? A: by default efficiency from embedding is used, for sys. unc. difference between data and embedding is used. BEMC is used for pT > 1 GeV/c, data and embedding are closer there, also they curves cross around 1.5 GeV/c.
  The unc. in this way can be underestimated, maybe it's for example better to take the upper and lower bands of both curves and fit it in order to estimate sys. unc. A: will check.
- pp reference for Raa - do you consider uncertainties A: In the current Raa plots it's not considered. It will be added soon for the preliminary results.
- For the publication - do you also plan to use 27 GeV data ? A; Haven't planned so far, but can be discussed.
- Raa results, you have a min. pT cut for 54 GeV of 0.2 GeV/c. Is this cut also applied for results at other energies: A: No, this requirement is introduced only for the 54 GeV case. Then the comparison of pT-integrated Raa results between all the energies can be not fully fair. A: 54 GeV results can be also plotted without the min. pT requirements.
- Would be nice to add your point on the published energy dependence plot with model prediction.

Workshop at BNL, RHIC toward EIC - Xin Dong

- Input needed for planned measurement using big 2017 pp dataset and possible measurements with upcoming run
- Will discuss in more detail and gather inputs on one of the upcoming PWG HF meetings

Restoration of pp 2017 dataset -- Leszek will check the BEMC information in the new production