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Dear PAC members:

We are writing this note regarding the Proposal E-94-117: 'Helicity Structure of the Pion Production on Polarized Deuteron and the GDH Sum Rule for the Neutron'.

E-94-117 was conditionally approved for 15 days with A- rating. The proposed experiment would use a polarized solid HD target, which at the time was under development at Brookhaven National Lab for LEGS polarized target experiments. The condition was the demonstration of successful operation of the target.

In the last several years, with large effort from the LEGS collaboration (of which many members are also collaborators on JLab E-94-117), a lot of progress has been made on the polarized solid HD target. Solid HD targets were successfully polarized a number of times in the last few years. However, there were difficulties in transferring the polarized HD target into beam for experiments.

At the meantime, first results on the proton GDH sum rule and on the helicity structure of exclusive channels have recently come out from Mainz and Bonn. The physics interests are very high, which is evident from many published papers and conference discussions. With no experiment has been done with polarized real photon on polarized deuteron (or ^3He), the proposed measurement clearly remains of high scientific interest.

When we were informed by the JLab management over a month ago that E94-117 would be in jeopardy by this PAC, the polarized HD target had not yet been put in beam. While part of this collaboration were working hard on the polarized HD target at LEGS, many members of this collaboration were also participating in many related experiments to gain experience with GDH sum rule related physics and experiments. However, with the situation of the polarized target not clear, we decided to postpone the re-submission of the proposal.

Finally last week, the polarized HD target was successfully transferred into beam at LEGS and first data with polarized real photon beam on polarized solid HD target were collected.

With the demonstration of the successful operation of the polarized solid HD target, we feel that it is a good time to have the experiment carry out now. However, not enough

time remain for us to prepare a detailed update of the proposal for this PAC. With this note, we would like to inform the PAC that we are working on the update of the proposal and intended to submit it to the next PAC.

We welcome any suggestions or comments.

Thank you.

Sincerely Yours

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