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status of the iSHELL project

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Alan Tokunaga

to Dan, David, Don, Doug, Jay, Klaus, Mike, Peter, Randy, Daniel, Morgan, John, T

The following is a brief summary of our status. I would like to thank the review com
recommendations.

1. John has come up with a descope plan. This can be downloaded at:

https://dl.dropboxusercontent.com/u/12111886/Rayner_descope_plan2.pdf

We are following the suggestion that we descope but leave space for upgrades later.
taken are summarized as follows:

- Remove the JHK immersion grating.
- Remove the immersion grating selection mechanism.
- Reduce number of grating positions in cross-disperser wheel from 12 to 8.
- Reduce number of slots in slit-viewer filter wheel from 15 to 7.
- Reduce number of slots in order-sorting filter wheel from 10 to 7.
- Make order-sorting and slit-viewing filter wheels identical.

We are allowing space for a future installation of a JHK immersion grating and a grat

The reduction in the number of filters and gratings leads to significant cost reduction
very expensive. However the proposed reductions do not impact the core iSHELL so
The reduction in the number of filters and gratings also reduces the size of the mec
and less flexure.

We have also eliminated the athermal bearing design in order to use a bearing desig
reduces the complexity of the mechanisms. We are also eliminating the Geneva de
for the slit wheel.

We have enlisted the help fo Mike Connelley for writing up the preliminary alignment
plan. He will help us with the integration and testing of the instrument.

2. Tracking review comments. We had a lot of useful comments from the review. W
with some of you. The attached pdf file gives a summary of progress we have made

Let me know if you have any questions or further comments.

Thanks,

the iSHELL team