Guest Observer/Investigator discussion

Participants:

WFIRST:

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Japan (in random order):

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Executive Summary:

We had useful brain-storming discussions. No concrete outcomes, but we got to know each other, shared ideas, and agreed that it is important to continue the discussion. **WFIRST-Subaru synergy:**

- Should idealy be based on the main WFIRST survey.
- Add complimentary data from Subaru;
 - complementary can be extending wavelength coverage, gaining depth, and increasing wavelength resolution, etc.
- LSST is the first choice for the broad-band photometry
- Narrow-band imaging from HSC may be useful
- K-band imaging with ULTIMATE? Spectroscopy is better?
- Many people are interested in PFS
- Higher resolution and wider wavelength coverage than WFIRST
- Not all the program can use all the fibers. Can we share fibers with multiple programs?

Target Fields:

- Need good visibility from WFIRST
- NEP is one option, but there is not much heritage from HSC+PFS
- XMM-LSS? It is a D/UD field in HSC-SSP. To be observed with PFS-SSP. LSST Deep Drilling Field (~28.5AB), too.
- Any other fields? Extend the area around XMM-LSS?

Science :

- X-corr between galaxies and HI (SKA)
- PFS follow-up of objects from WFIRST grism
- Ly alpha fraction among LBGs
- PFS follow-up of z>7 QSO candidates (HLS)
- etc, etc, etc...

How to use the 100 nights:

- Big science often merges from the area where people cannot even imagine before launch.
- Can we reserve, e.g., 25 nights for GO to be awarded later?
- Preparatory observations with Subaru? The current Subaru-Keck framework may work.
- 20-30 nights are not a lot of nights!

Misc :

 WFIRST community may benefit from Subaru experience with HSC+PFS pipeline processing and data handling.