Minutes from Science Cases Team Meeting.

Date: June 25, 2008
Attendee: Keck: C. Neyman, P. Wizinowich,  D. Le Mignant
   UCSC: D. Gavel, C. Max and E. McGrath

The meeting agenda is posted at:
  http://www.oir.caltech.edu/twiki_oir/bin/view/Keck/NGAO/080125_Remote_NGAO_Meeting_13

Claire and Liz presented their slides (Max_SCRD_v3.ppt) on the new release (release 2)
of the SCRD.
http://www.oir.caltech.edu/twiki_oir/bin/view/Keck/NGAO/NGAOSRDDrafts
Key points:
- **SCRD release 2** is ready for distribution *(end of next week? As there were
  changes requested during the meeting)*. More work on formatting and minor
  changes by Liz, David and Claire next week.
- See slide 3 for SCRD changes overview


Here a the few questions during the presentation:
- On the Key Science Drivers "Planets around low-mass stars". Claire needs to
  check that the contrast requirements are consistent with Ralf Flicker's report on
  NGAO high-contrast and planet sensitivity budget.
- On the slide about "galaxies lensed by galaxy cluster", they are some questions
  about the observing strategy:
    - where will the imaging survey to detect the likely-high-z lensed galaxies
      be done? With NGAO, MOSFIRE or elsewhere?
    - How close do you have to pack the IFU (and their pickoff)? This should
      an instrument-derived requirement for the d-IFS
- NGS backup
    - Requirement on faint NGS for backup science?
        - How many subap on the NGS WFS. Could there be a -say- 14x14
          subap lenslet that would allow to close on R=16 mag stars
          (meaning R=14 mag with 2 mag of extinction)?
        - Can we use the LOWFS w/ NGS WFS (same or different NGS on
          LOWFS + NGS on WFS)?
        - If NGS WFS provides a 14x14 subap, can it be used for narrow
          field truth sensor?
    - Seeing limited:
        - Can use LOWFS correction with (NIR) large fov acq camera?
        - If acq camera is large fov NIR camera, does it need a pupil stop for
          NIR background emission? Maybe it could only use J and H band
          to limit the cost?
- Review of the Rainbow Chart
    - David to convert it into KAON 548 and post it on Twiki (done)
    - Rich: seeing assumptions needs to be updated to reflect latest changes.
    - Reminder: field of view for NGS: 150", field of view for LGS: 175"

- Liz: Check value for differential tracking for gas giant and asteroid (which one is the real driver)
- Claire: check background values for d-IFS (20 or 30%??)
- Various things:
  - Requirements for PSF simulation, estimation, reconstruction, subtraction require more work. Should be included in the PD and DD phase. Should benefit from on-going work with CfAO project with Ralf.
- Further work on SCRD, SRD;
  - Format SCRD (and include observing scenarios)
  - Update NGS backup section with information above (David).
  - Needs to check SRD tables and includes into contour db (Chris?).
  - David and Liz to check system configuration (did not have time to cover this topic).