

Summary of the SGSO Meeting (Heidelberg, 2018 October 8-9)

Slides of the talks are available on indico:
<https://indico.in2p3.fr/event/17591/>

Science cases and status of the white paper

- Agreement on science drivers as outlined in the paper draft
- Review of the WP very efficient and helpful
 - All groups are invited to update the draft
 - Aim : finalization of the WP until the end of the year
- Add « Excecutive summary » to WP
 - Highlighting main science drivers and aim of the WP
 - Galactic sources at the highest energies + multi-wavelength / multi-messenger alerts
 - Outline of science case, not a proposal/technical design of the observatory
- Publication + Authorship
 - Divergent views on both topics
 - Decisions
 - All SGSO members will be invited to join the authorlist of the WP.
 - The WP will be submitted to the ArXiv and be treated as living document that can be updated.
 - Papers on individual science topics can be published as short authorlist papers
 - Decadal survey
 - aim for several papers on main science cases (based on the WP)
 - inform colleagues from CTA-US (highlighting joint science cases + complementarity)

Progress of individual projects and prototypes

Impressive progress and many plans for the near/mid-term future. See individual slides for details.

Simulations

Various groups have set up simulation chains for the individual designs. Decision to create a common *SGSO simulation working group*. Aims:

- Create a common simulation framework
 - Agree on simulation and analysis tools
 - Share Geant-4 modules for the individual designs
 - ...
- Organization of working meeting(s) of involved people

Organization

- General organization of the SGSO Alliance sufficient at the moment
 - Call to establish a group of “SGSO country representatives” to easy communication and organization
- Recall the various ways of communication
 - Wiki page: sgso-alliance.org (individual login after registration as SGSO member)
 - [Mailinglist](#) (individual subscription, open to all SGSO members)
 - [Indico](#) (Password: SGSO)
 - Slack: southerngamma.slack.com (request invitation from [Harm](#) or [Fabian](#))
- Relationship between SGSO and CTA
 - In general: common science interests and large complementarity
 - Decisions
 - Don't wait until CTA installation is complete but adapt the SGSO timeframe to limit interference with CTA funding (e.g. major funding requests only after the CTA legal entity is secured)
 - Inform the CTA management about the SGSO Alliance, the SGSO science goals, etc.

Next meeting: May 2019 in Lisbon

- Updates from the individual projects and prototypes
- Progress report from the *SGSO simulation working group*
- First presentations and assessment of array design, available electronics solutions, etc.
- Cost estimates for design choices...
- ...