IRIS RSAP 2025

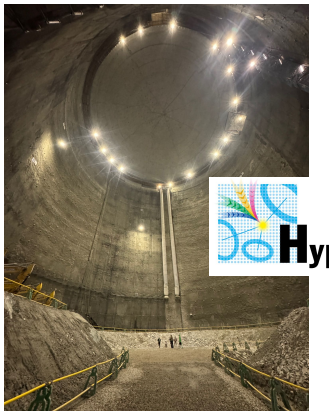
Sophie King

IRIS RSAP Chair

13/01/2026

Introducing Myself

- Postdoc at KCL, formally a student and postdoc at QMUL
- Working on the Japanese neutrino experiments T2K and Hyper-K. Current roles:
  - Co-Coordinator of the T2K near detector, ND280
  - Selection & Detector systematics Convener of the ND280 Cross-Section Group
  - Co-Convener of ND280 Computing
  - Convener of Hyper-K Computing
- Joined the IRIS RSAP pre-panel technical review team in 2022
  - Became very familiar with the IRIS RSAP process, partners and providers over these 3 years
- Appointed to IRIS RSAP Chair in 2025



IRIS RSAP 2025 (For 2026/2027)

- RSAP 2025 is following the procedure (and forms) laid out by Daniela

- **Technical pre-panel review**
  - ~ Complete
    - Most loose ends were tied up by Friday last week, and a few yesterday
  - Thank you to Daniela, Deniza and Matt for all the help and support!

- **Panel Review**
  - 17 (16 available for zoom) Panel members this year (Thanks to all those involved)
    - Some stepped back, some new people joined the efforts
  - ‘Reviewer packs’ for panel members for a given experiment - Majority are now ready.
    - Will start emailing these out to Panel members tomorrow
      (The one or two still being finalised, to be sent by the end of the week).
  - Deadline for panel members to submit assessment: 13th Feb (4 weeks from Friday)
  - **RSAP Zoom: 2nd March from 9am**

IRIS RSAP 2025 Partners

Existing IRIS Science Partners:

ALC, CASU, CCP4, CLF_Octopus, CLF_Other, Darkside, DLS&xChem, DUNE, Euclid, GAIA, ISIS, JBCA, JLAB, JINTRAC, LIGO LSST, LZ, MicroBooNE&SBND, PLATO, SKAO, UKSRC, WFAU

New IRIS Science Partners (submitting first full RSAP application):

JETSCAPE (heavy-ion collision simulation)

- Seedcorn granted for 2024/2025, used for benchmarking, and reported in this RSAP

EM-Cloud (CCP-EM and CCP-VolumeEM: Electron Microscopy)

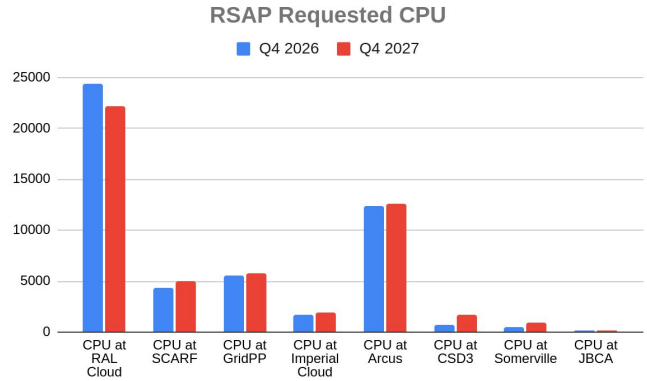
- Submitted seedcorn last year, accepted, and to be allocated in January 2026

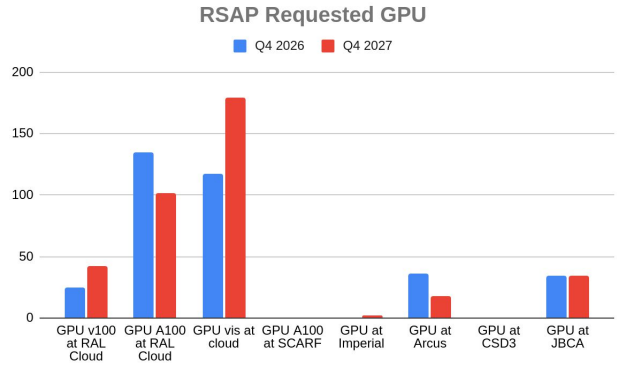
XLZD (Dark matter, neutrinos)

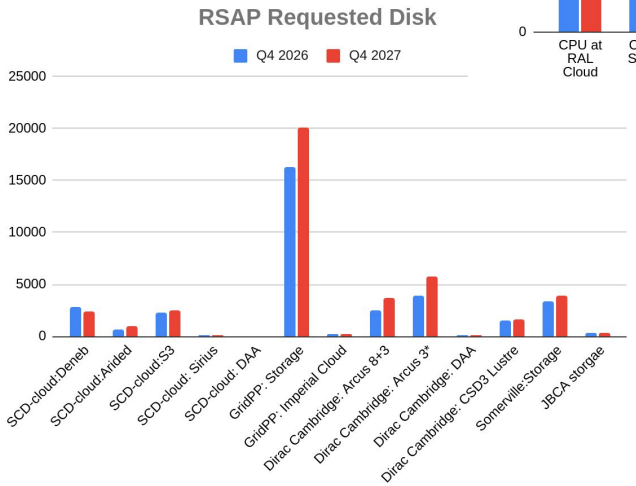
- Seedcorn allocated in August 2025

IRIS RSAP 2025 Requests to Providers

Thanks to Deniza for summary numbers







	TOTAL		
	Q4 2026	Q4 2027	
CPU requested	49742	50234	0.99%
GPU requested	347	377	8.65%
Storage requested	34173	41605	21.75%
Tape requested	2735	6770	147.53%

RSAP 2026 and Beyond

RSAP Forms

A few points popped up during the RSAP pre-panel technical review

- areas that need clarifications
- additional information that would be useful to add
- improvements to format

It is a balance between capturing the required info from the more involved applications, while not making it overly complicated/excessive

At the end of the RSAP process we will ask applications, tech review team, panel members and providers for any feedback on potential improvements and make a new draft

RSAP into the future: Benchmarking

The problem

- IRIS currently does request/accounting/allocation using #cores
- Note all cores are equal, and the gap is widening (can vary by at least a factor of 3)

→ Can we use a better metric for IRIS?

What does HEP do?

- The HEPScore23 (HS23) benchmark is used in HEP.
  - HS23 lookup table for different processors (or benchmarking app available)
  - Grid resources are requested/monitored/allocated in HS23

→ Designed for typical HEP workloads, which is not necessarily typical of other IRIS projects

Requirements for IRIS

- The approach should be 'roughly' suitable for the workloads in question
- The approach we chose should be straight forward for applicants to follow, and not put significant burden on providers in terms of support.

→ Benchmarking with guidelines can be part of the seedcorn process for new experiments.

- Ideally, IRIS accounting should be able to report in normalized units

RSAP into the future: Benchmarking

Solution?

- For GridPP, since it uses HS23, it probably makes sense to use this for Grid in IRIS, rather than converting and then back again.
- But for other IRIS resources, this is not suitable. Alternate suggestions?
  - SPEC ?
    - more realistic measure than int-ops or FLOPS
    - but more generalised than HEPScore?
  - Suggestions welcome..

- CPU speed may not be the biggest limiting factor for all workloads (e.g. IO, memory). Trying to better match/accommodate requirements of experiments can improve efficiency and the resource allocation/accounting/reporting.

- It will be useful to get feedback from applicants, providers and from IRIS community in general with ideas on how to approach this.

- Andrew and Jon will announce some dedicated IRIS-TWG meetings to discuss this topic further

Summary

- IRIS RSAP 2025 is underway
  - Going relatively smoothly
  - Pre-panel tech review ~ complete
  - Panel review stage starting
  - RSAP Panel Zoom: 2nd March

- Considering improvements for future RSAP iterations
  - Updates and clarifications to forms
    - E-mail will go out to applicants, reviewers, providers and pre-panel/tech review team for feedback
  - Benchmarking
    - Feedback from IRIS community very welcome
    - Dedicated IRIS-TWG discussions to be announced