

Service National d'Observation
(SNO)
LISA (et al,)

Service National d'Observation and CNAP

Service National d'Observation: officially recognised duty to the **community** coordinated by CNRS/INSU (e.g. build and instrument, develop a pipeline, maintain a database...)

Staff astronomers (astronomes adjoints and astronomes) are **hired to do this through the CNAP** (corps national des astronomes et des physiciens).

- 50% time dedicated to research in astronomy

- 33% time dedicated to service

- 17% time dedicated to teaching

National hiring campaign in winter/spring, 3-6 positions/yr.

Research and service not necessarily connected (but based on same skills)

Some level of French is required

SNO LISA

Instrumentation: conception, development and realisation of equipment to test, validate the IDS (interferometric heart):

-> beam simulator, test mass simulator, stable structure and laser sources.

Ground segment: design, prototype, development and implementation of the chain of analysis (DDPC: distributed Data Processing Center):

- > global infrastructure, on-ground instrument processing (L1 data production), Global Fit (L2 data production) and alerts pipelines, consolidation into catalogues (L3 data production), data simulation and waveform production.

We expect **performance** assessment and monitoring to also become an official “tâche de service” in the future.

You want to join?

Get in touch with local and/or national coordinators: Gilles Theureau (OSUC)- Astrid Lamberts (OCA) (national coordinators)

local coordinators:

- Marta Volonteri (IAP)
- Olivier Godet (OMP)
- Adrien Bourgoin (Obs. de Paris, including APC)
- Thierry Foglizzo (OSU Paris Sud)

additional members: Hubert Halloin and Antoine Petiteau

global email: sno.lisa@obspm.fr

Determine together which tasks are suitable, and **get involved**. Coordinators are here to help you!

Monitor SNO webpage (national and local ones) to know local and national global priorities

SNO Virgo

Priorities:

- Virgo operation: LVK source catalogue production and alerts production
- Virgo noise reduction
- Virgo high power laser commissioning and squeezing

Skills:

- Bayesian inference, software development, machine learning
- Laser and optics

Involved observatories & contacts

- [OCA](#): Marie Anne Bizouard (marieanne.bizouard@oca.eu) - National coordinator
- ObsPM: Eric Chassande-Mottin (ecm@apc.in2p3.fr)

**The most important point: the Service Task must correspond to a priority.
Come and discuss with the SNO coordinator to prepare it.**

SKATE - SKA and its pathfinders

Priorities and Skills:

Organisational activities and management, operation of observatories and data releases (FR606, LOFAR, NenuFAR), Instrumentation (including numerical development), Development of the FR-SKA Regional Center (future AstroData), **RELEVANT FOR THE GdR: Preparation of a pulsar timing database and tools to easily extract useful products (e.g., timing residuals, PTA measurements)**

Involved observatories:

Paris Obs., OSUC, OCA, OASU, OSUPS

Contacts

<https://lux.observatoiredeparis.psl.eu/-SKATE->

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Useful links

List of National observing services <https://www.insu.cnrs.fr/en/national-observation-services-sno>

CNAP website (about hiring) <https://cnap.obspm.fr/>

SNO LISA page (to be updated soon)

<https://lisafrance.pages.in2p3.fr/website/sno.html#le-service-national-dobservations-lisa>