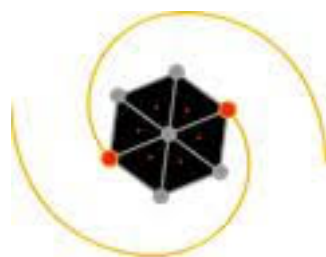


Euclid - France atelier/ workshop gravitational lensing

22/10/2018, IAP



Introduction

Euclid-France working groups

- Census of scientists and their expertise in France for Euclid: faculty, post-docs, students.
- Census of participation and responsibilities (SWG, IST, SGS, ...). Obtain “critical mass” to contribute to work groups, meetings.
- Identify software and development resources and needs.
- Road map of strategic French contributions to Euclid.
- Forum to share ideas and information.
- Organise face-to-face meeting.

Introduction

Euclid-France working groups

- Census of scientists and their expertise in France for Euclid: faculty, post-docs, students.
- Census of participation and responsibilities (SWG, IST, SGS, ...). Obtain “critical mass” to contribute to work groups, meetings.
- Identify software and development resources and needs.
- Road map of strategic French contributions to Euclid.
- Forum to share ideas and information.
- Organise face-to-face meeting.

Euclid-France WL group

- Started in 2016
- Lead Martin Kilbinger, Karim Benabed.
- 57 people on mailing list, from CEA, IAP, APC, LAM, IRAP, IAS

Existing resources and actions

- Occasional mail with announcements, requests, ...
- Regular reports to Euclid-France coordination group

Existing resources and actions

- Wiki page
<https://euclid.roe.ac.uk/projects/sgsinterfacet/wiki/Weak-lensing>

The screenshot shows the 'Science Coordination - FR' Wiki interface. The top navigation bar includes links for Home, My page, Projects, Easy Gantt, Administration, and Help. A search bar is present with the text 'Science Coordination - FR'. Below the navigation bar, a menu shows 'Overview', 'Activity', 'Issues', 'Gantt', 'Calendar', 'News', 'DMSF', 'Documents', 'Wiki' (selected), 'Files', and 'Settings'. The main content area is titled 'Wiki »' and features a toolbar with 'New wiki page', 'Edit', 'Unwatch', 'Lock', 'Rename', 'Delete', and 'History'. The page title is 'Weak-lensing'. Below the title, contact information for Martin Kilbinger and Karim Benabed is provided. A section titled 'Tools and codes' lists 'CosmoSIS' and 'Covariance' with brief descriptions. A 'New file' button is at the bottom left. On the right, a sidebar contains 'Wiki' links: 'Start page', 'Index by title', and 'Index by date'. At the bottom right, it says 'Also available in: PDF | HTML | TXT'.

Home My page Projects Easy Gantt Administration Help

Logged in as martin.kilbinger My account Sign out

Science Coordination - FR

Search: Science Coordination - FR

+ Overview Activity Issues Gantt Calendar News DMSF Documents Wiki Files Settings

Wiki »

New wiki page Edit Unwatch Lock Rename Delete History

Weak-lensing

Contact: Martin Kilbinger (martin.kilbinger@cea.fr), Karim Benabed (benabed@iap.fr)

Tools and codes

CosmoSIS

Fisher-matrix forecasts, MCMC sampling, weak lensing, correlated probes.

Covariance

Covariance task force, working in 2017 to make recommendation to the board about methods to obtain the weak-lensing covariance.

New file

Also available in: PDF | HTML | TXT

Wiki

Start page
Index by title
Index by date

Existing resources and actions

[Wiki » Weak-lensing »](#)

[New wiki page](#) [Edit](#) [Watch](#) [Lock](#) [Rename](#) [Delete](#) [History](#)

CosmoSIS

Contact

Martin Kilbinger (martin.kilbinger@cea.fr)
Isaac Tutusaus
Stéphan Ilic
Anne Ealet

Information

CosmoSIS is a freely available, modular versatile cosmology code for sampling, modeling, Fisher-matrix, including many likelihood models for various probes. It has been developed within DES by Joe Zuntz and others. Within the Euclid IST we have created a forked version of cosmoSIS that is used for forecasts of weak lensing and combined probes.

Use the code

To use the code, first get an account on <http://bitbucket.org> and let Martin know the user name.

Once added as used, download the official version:

```
git clone https://USERNAME@bitbucket.org/joezuntz/cosmosis.git
```

Then, point repository to the forked version.

Puis, pointer sur la version forkée. Dans le sous-repertoire "cosmosis", taper

```
git remote set-url origin https://bitbucket.org/martin_kilbinger/cosmosis-euclid-ist-ext
```

See <https://bitbucket.org/joezuntz/cosmosis/wiki/Where%20to%20put%20CosmoSIS-compatible%20code> for how forks work.

Next steps.

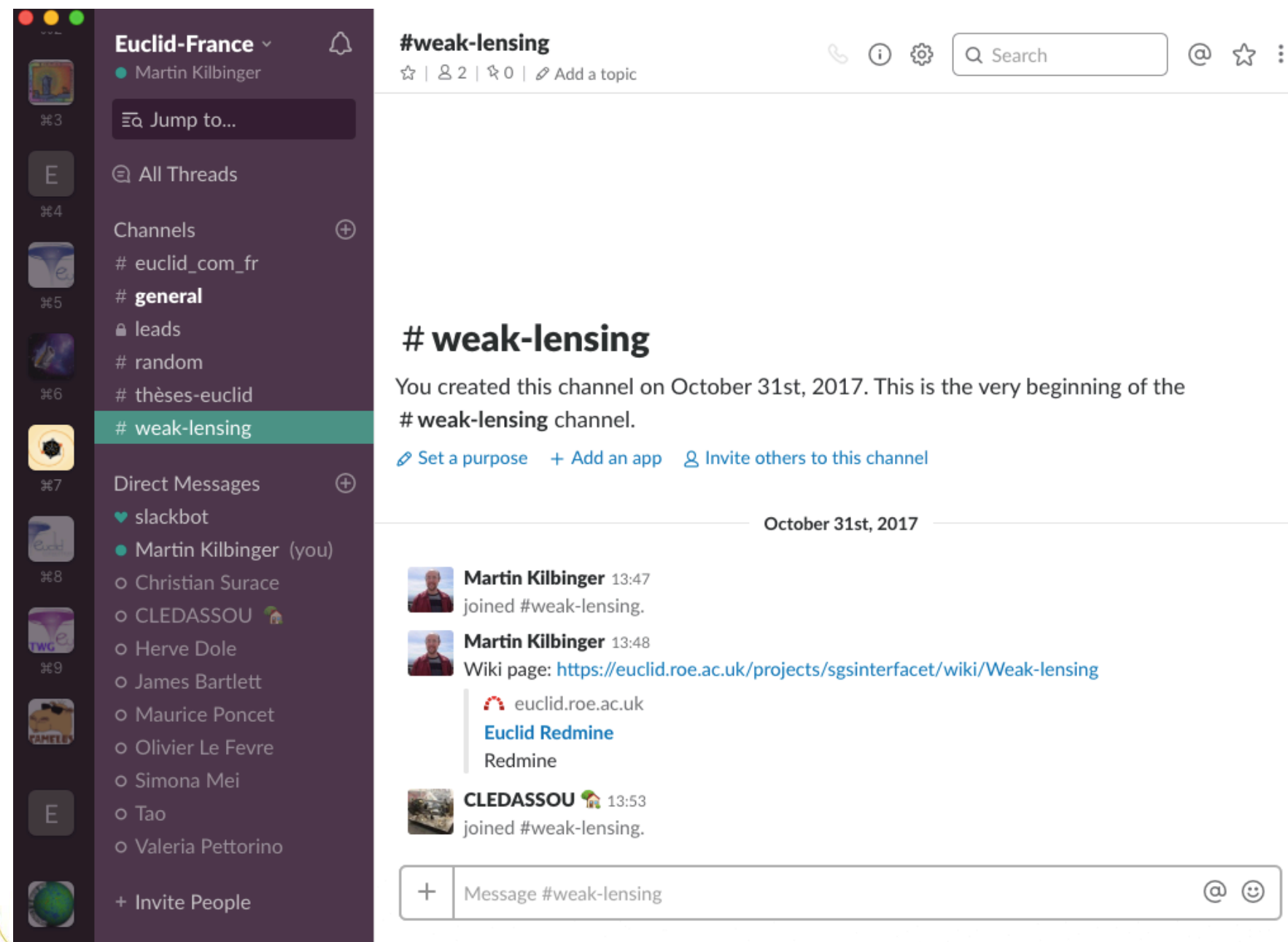
Each run of cosmoSIS requires one or more configuration files (.ini).
See <https://bitbucket.org/joezuntz/cosmosis/wiki/browse> for demo example scripts and runs.

In the Euclid fork in directory cosmosis, find .ini files for the IST forecast runs for weak lensing and lensing+2D-clustering.

New file

Existing resources and actions

- Slack channel
[#weak-lensing](https://euclid-france.slack.com)



Goal of this meeting

- Scientific exchanges, presentations, discussion
- Collaborate
- Discuss ideas to strengthen this group