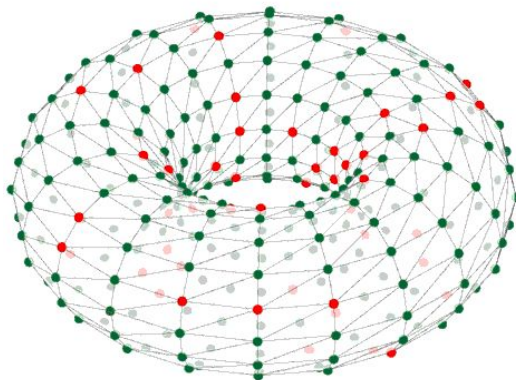


Using the HBP Portal



Andrew Rowley



European Research Council
Established by the European Commission



Human Brain Project



HBP Collaboratory

<https://collab.humanbrainproject.eu/>



Navigation

Release Notes

Getting Started

Dashboard

Create a Collab

Software Catalog

▼ Platform Collaboratories

Neuroinformatics

Brain Simulation

HPAC

Medical Informatics

Neuromorphic

Neurorobotics

► Other HBP Websites

► Getting Access

Developers

Workspace

Release Notes



What's new in the Collaboratory?

This page is dedicated to help you understand what's been recently released in the Collaboratory.
If you are new to the Collaboratory, you should check the [Getting Started](#) section.

Release Update, 8th of August 2017

Fixes

- The [OpenID Connect Server](#) has been patched to fix an issue preventing users from **creating self-registered OIDC clients**

Release Update, 26th of July 2017

Update

- Add a public monitoring status page on various HBP services <https://status.humanbrainproject.org/>

Release Update, 20th of July 2017

Update

Collaboration

7 members - 0 available

Show all

Send a message

Neuromorphic

Neuromorphic Platform



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



Neuromorphic Computing Platform

Public

Member

Navigation

ADD ⚙

Workspace

Overview

⚙ ⌵

Collaboration

Overview

Guidebook

Create a Collab

Storage

Team

Settings

News

Issues

12 members - 0 available

Show all

Get Started!
Neuromorphic Computing
platform

A sub-project of the Human Brain Project

⚙ Get started!

🐦 Twitter

📺 Youtube

✉ Contact-us

Send a message

Create a Neuromorphic Collab



COLLABORATORY

[HOME](#)[COLLABS](#)[PLATFORMS ▾](#)[HELP](#)[FEEDBACK](#)[FORUM](#)

Neuromorphic Computing Platform

[Public](#)[Member](#)

Navigation

ADD

[Overview](#)[Guidebook](#)[Create a Collab](#)[Storage](#)[Team](#)[Settings](#)[News](#)[Issues](#)

Workspace

Create a Collab

A Collab is a collaboration space that you and your team will use to share data and access the scientific tools needed to accomplish your goal.

Collab name (required)

The perfect title shortly state the goals of this collaboration space.

Description (required, max 140 chars)

In less than 140 characters, describe what are the objectives of this collaboration space and the general context. This will appear in listing and search results.

Access Rules

- ☐ **Public**
Everybody can see the collab. You choose who can modify it.
- ☐ **Private**
You choose who can see and modify the Collab.

Those parameters can be changed later in the Collab Settings. Please Note that content created in third party apps might use a different permission model.

[Create Collab](#)

Collaboration

12 members - 0 available

[Show all](#)

Your New Collab!

MyTestCollab Private Member

Navigation

ADD

Overview

Team

Storage

Settings

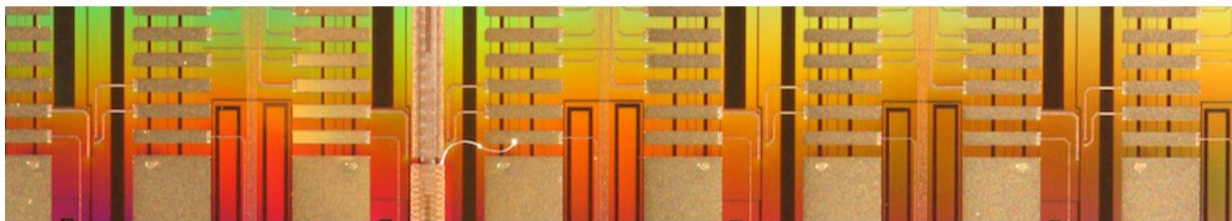
Guidebook

Resource Manager

Job Manager

Workspace

Overview

[Description](#) [Activities](#) [Team](#)

Getting Started with the HBP Collaboratory Platform

1. **Add team members** to your Collab using the "[Team](#)" link in the navigation bar on the left. Only members of the team will be able to launch simulations. If this is a public collab, anyone with an HBP account will be able to view the results. If it is a private collab, only team members will be able to view results.
2. **Read the Guidebook**.
3. **Request access to the platform**, using the "[Resource Manager](#)" link.
4. **Run simulations**, using the "[Job Manager](#)" link.

You can now remove or edit this "Overview" page, and replace it with documentation for your project.

Recent Activities

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
S													
M													
T													
W													
T													

Collaboration

1 member - 0 available

Request Resources...



COLLABORATORY

[HOME](#)[COLLABS](#)[PLATFORMS ▾](#)[HELP](#)[FEEDBACK](#)[FORUM](#)

MyTestCollab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Resource Manager](#)[Job Manager](#)

Workspace

Resource Manager



Collaboration

1 member



Request for access

To request access to the HBP Neuromorphic Computing Platform for yourself and your collaborators, please click the Edit button above and fill in the form.

Three forms of access are available:

Test access

Only a brief abstract is required explaining why you wish to use the platform. It is not necessary to fill in the "Project access" form. Previous experience with the platform is required. A fixed quota of 5000 core-hours (for the SpiNNaker system) and/or 0.1 wafer-hours (for the BrainScaleS system) will be allocated, together with temporary storage of 1 GB.

Preparatory access

Only a short technical motivation is required. Previous experience with the platform (through a test access) is expected. A fixed quota of 500000 core-hours (for the SpiNNaker system) and/or 10 wafer-hours (for the BrainScaleS system) will be allocated, subject to a brief technical review, together with temporary storage of 10 GB.

Project access

For projects requiring more than the test/preparatory quotas, a scientific motivation of about one page should be provided, and a request for resources (in core-hours, wafer-hours and/or GB of storage) should be specified, and justified with respect to the project's scientific goals. This proposal will receive both scientific and technical reviews.

Do not forget to specify which type of access you are requesting, and which of the Neuromorphic Computing Systems ("BrainScaleS", "Spikey" and/or "SpiNNaker") you wish to use.

Access is granted on a per-collab basis, not per-person. All members of this collab will be able to make use of the quota.



Settings

Request Resources



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



MyTestCollab Private Member

Navigation

ADD

Overview

Team

Storage

Settings

Guidebook

Resource Manager

Job Manager

Workspace

Resource Manager

Access is granted on a per-collab basis, not per-person. All members of this collab will be able to make use of the quota.

Project title

title

← Project Title

Abstract

abstract

← Abstract

(Test / Preparatory / Project access)

Maximum 500 characters.

Project description

not required for test access

← Description

(not for test access)

Maximum 10000 characters.

Save changes

Submit proposal

← Submit proposal

Collaboration

1 member



Request Accepted!



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Resource Manager

SpiNNaker Workshop 2017 Demo

Your request for access has been granted.

Abstract

Test access for participants of the SpiNNaker workshop 2017

Project description

Request # f117baa6-28f1-46d0-b238-ca7c0f4e8cd9

Quota usage

- You have used 0 of 5000 core-hours on SpiNNaker

Collaboration

40 members - 0 available

Show all

Send a message

Job Manager

SpiNNaker Workshop 2017 Collab Private Member

Navigation ADD 

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Job Manager



	ID	Status	Platform	Code	Submitted on	Submitted by
---	----	--------	----------	------	--------------	--------------

Build: green c0471e0c 2017-09-22T13:09:45.343778

New Job

New Job

Collaboration

40 members - 0 available Show all

Send a message

Create a Job - PyNN Script



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab Private Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Job Manager



Create Job

Hardware Platform

Code

Editor

[From Git repository or zip archive](#)

[From Collab storage](#)

Please enter your code in the textarea.

Command

Hardware Config

Tags

Input Files + -

Cancel

Submit

Submit

Collaboration

40 members - 3 available

Show all



C This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Job Submitted!



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager



Your job has been submitted. You will receive further updates by email.

ID	Status	Platform	Code	Submitted on	Submitted by
92903	submitted	SpiNNaker	<pre>import pyNN.spiNNaker as p p.setup(1.0) print "Test" p.end()</pre>	2017-09-28 15:13:01	Andrew Rowley

Build: green c2471e0c 2017-09-22T13:06:40.343778[New Job](#)

Collaboration

40 members - 3 available

[Show all](#)

C

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Job Running...



COLLABORATORY

[HOME](#)[COLLABS](#)[PLATFORMS ▾](#)[HELP](#)[FEEDBACK](#)[FORUM](#)

SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager



ID	Status	Platform	Code	Submitted on	Submitted by
92903	running	SpiNNaker	import pyNN.spiNNaker as p p.setup(1.0) print "Test" p.end()	2017-09-28 15:13:01	Andrew Rowley

Build: green c2471a0c 2017-09-22T13:08:45.343778

New Job

Collaboration

40 members - 3 available

Show all



C This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Job Finished!



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager



ID	Status	Platform	Code	Submitted on	Submitted by
92903	finished	SpiNNaker	import pyNN.spiNNaker as p p.setup(1.0) print "Test" p.end()	2017-09-28 15:13:01	Andrew Rowley

1

Build: green c2471edc 2017-09-28 15:00

View Results

New Job

Collaboration

40 members - 3 available

[Show all](#)

C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Job Results



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Job Manager

/ Job 92903

back

finished

Submitted 2017-09-28 15:13:01 by Andrew Rowley to SpiNNaker

Completed 2017-09-28 15:19:25

Output files

Copy to Collab storage

Copy to HPC storage

<http://jabez.cs.man.ac.uk/services/rest/output/5368/92903/reports.zip>

These files are in temporary storage, and may be deleted after 3 months. For longer-term preservation or further analysis, we recommend copying them to the Collaboratory.

Code

```
import pyNN.spiNNaker as p
p.setup(1.0)
print "Test"
p.end()
```

Collaboration

40 members - 3 available

Show all



C

This is the very beginning
of the current collab's chat.
Start using it to collaborate
with your team!

Send a message

 SpiNNaker Reports

More Job Results

SpiNNaker Workshop 2017 Collab Private Member

Navigation ADD 

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Job Manager

Hardware config

```
{"resource_allocation_id":200}
```

Provenance

collaboratory

{"nav_item":41774}

**Provenance
(see later)**

Log

```
2017-09-28 15:20:10 INFO: Read config files: /opt/git/SpiNNFrontEndCommon/spinn_front_end_common/interface/spinnaker.cfg, /opt/gi
2017-09-28 15:20:10 INFO: Will search these locations for binaries: /opt/git/SpiNNFrontEndCommon/spinn_front_end_common/common_mo
2017-09-28 15:20:10 INFO: Setting time scale factor to 1.
2017-09-28 15:20:10 INFO: Setting machine time step to 1000.0 micro-seconds.
['/opt/git/SpiNNFrontEndCommon/spinn_front_end_common/interface/spinnaker.cfg', '/opt/git/spinnaker/spinnaker/python/spinnaker.cfg'
Test
```

Output Log

[back](#)

[Edit & Resubmit](#)

[Delete](#)

Collaboration

40 members - 3 available Show all



C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Create a Job - Git Repository / Zip



This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Create Job

Hardware Platform

Please choose a simulation platform.

Code

[Editor](#)[From Git repository or zip archive](#)[From Collab storage](#)

Please enter a Git repository URL or the URL of a zip archive containing your code.

Command

Hardware Config

Tags

Input Files + -

[Cancel](#)[Submit](#)



MyTestCollab



Navigation

ADD

Overview

Team

Storage

Settings

Guidebook

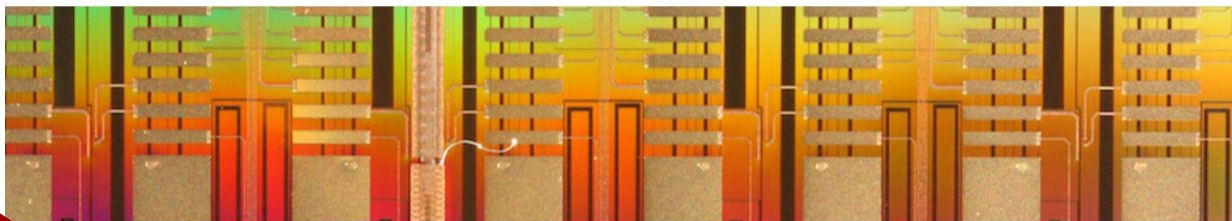
Resource Manager

Job Manager

Workspace

Overview

Description Activities Team



Getting Started with the HBP Neuromorphic Computing Platform

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Recent Activities

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
S													
M													
T													
W													
T													

Collaboration

1 member - 0 available

Send a message

Upload File to Storage



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

5368

Empty

Storage

5368

Empty

Collaboration

40 members - 3 available

Show all



C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Select for options

Upload File to Storage



COLLABORATORY

HOME COLLABS PLATFORMS ▾ HELP FEEDBACK FORUM



SpiNNaker Workshop 2017 Collab Private Member

Navigation ADD ⚙

- Overview
- Team
- Storage**
- Settings
- Guidebook
- Job Manager
- Resource Manager

Workspace Storage ⛶

5368	5368 🔑
Empty	Empty

Upload File

Upload File
 Create Folder
 Create External Link

Collaboration

40 members - 3 available Show all

C This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Select File(s) to Upload



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Storage

5368

5368

Empty

Upload new files

Drop Files Here to Upload

or

Select Files

Upload



Upload

Collaboration

40 members - 3 available

Show all



C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Back to the Job Manager...



COLLABORATORY

[HOME](#)[COLLABS](#)[PLATFORMS ▾](#)[HELP](#)[FEEDBACK](#)[FORUM](#)

SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager



Create Job

Hardware Platform

SpiNNaker ▾

Code

[Editor](#)[From Git repository or zip archive](#)[From Collab storage](#)

Collab Storage Browser

5368

synfire_collab.py

Command

Collaboration

40 members - 3 available

[Show all](#)

C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Plots



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

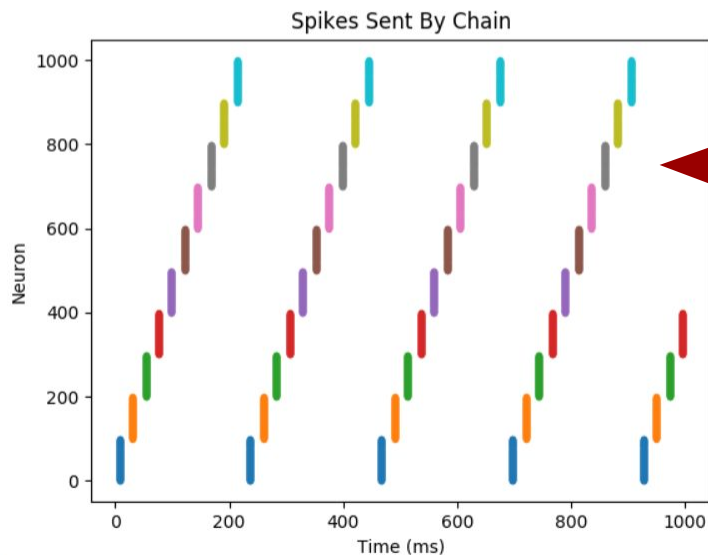
Job Manager

Resource Manager

Workspace

Job Manager

<http://jabez.cs.man.ac.uk/services/rest/output/5368/92904/reports.zip>



<http://jabez.cs.man.ac.uk/services/rest/output/5368/92904/results.png>

PNG output file

Collaboration

40 members - 3 available

Show all



C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Plots - Change Code!



```
sim.run(simtime)
# None PyNN method which is faster
# spikes = [pop.spinnaker_get_data("spikes") for pop in chain_pops]

# PyNN method and support method
neos = [pop.get_data("spikes") for pop in chain_pops]
spikes = map(neo_convertor.convert_spikes, neos)

sim.end()

if __name__ == '__main__':
    try:
        import pylab
        pylab.figure()
        pylab.xlabel('Time (ms)')
        pylab.ylabel('Neuron')
        pylab.title('Spikes Sent By Chain')
        offset = 0
        for pop_spikes in spikes:
            pylab.plot(
                [i[i] for i in pop_spikes],
                [i[0] + offset for i in pop_spikes], ".")
            offset += n_neurons
        pylab.savefig("results.png")
    except Exception as ex:
        print ex
        print spikes
```

pylab.savefig("results.png")



This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

More Provenance



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Job Manager

Hardware config

```
{"resource_allocation_id":200}
```

Provenance

collaboratory {"nav_item":41774}

router_provenance {"total_created_packets":4832,"total_dropped_packets":0,"total_lost_dropped_packets":0,"total_missed_dropped_packets":0,"t

spinnaker_machine 10.2.225.1

version_data {"data_specification_version":"1!4.0.0","front_end_common_version":"1!4.0.0","lazyarray_version":"0.2.10","neo_version":"0.4.1","num

Log

Collaboration

41 members - 1 available

Show all



C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!

Send a message

Files in a Folder



COLLABORATORY

[HOME](#)

[COLLABS](#)

[PLATFORMS](#) ▾

[HELP](#)

[FEEDBACK](#)

[FORUM](#)



SpiNNaker Workshop 2017 Collab

[Private](#)

[Member](#)

Navigation

ADD

[Overview](#)

[Team](#)

[Storage](#)

[Settings](#)

[Guidebook](#)

[Job Manager](#)

[Resource Manager](#)

Workspace

Storage



< TestFolder



5368 / TestFolder



Name

Content

Created on

Created by

stdp_collab.py

Plain Text

2017-09-29

Andrew Rowley

Collaboration

41 members

[Show available](#)



Page 1 of 5



Create a Folder and Put Files in it

Select Folder



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager



Collab Storage Browser

5368

TestFolder

**Select Folder and
Type Script Name
(prefix with folder name)**

Command

TestFolder/stdp_collab.py

Hardware Config

Tags

Collaboration

41 members

[Show available](#)

Page 1 of 5



Create a Module Folder



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD ⚙

Overview

Team

Storage

Settings

Guidebook

Job Manager

Resource Manager

Workspace

Storage

TestFolder



5368 / TestFolder



Empty

Name	Content	Created on	Created by
__init__.py	Plain Text	2017-09-29	Andrew Rowley
stdp_co	Plain Text	2017-09-29	Andrew Rowley

Add __init__.py

Collaboration

41 members

Show available



Page 1 of 5



Run Module script



COLLABORATORY

[HOME](#)

[COLLABS](#)

[PLATFORMS ▾](#)

[HELP](#)

[FEEDBACK](#)

[FORUM](#)



Spinnaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)

[Team](#)

[Storage](#)

[Settings](#)

[Guidebook](#)

[Job Manager](#)

[Resource Manager](#)

Workspace

Job Manager



Collab Storage Browser

5368

TestFolder

new_model_task_1.zip

synfire_collab.p

**Select Folder and Type
Command**

(prefix with -m folder.module - no .py)

Command

-m TestFolder.stdp_collab

Hardware Config

Collaboration

41 members

Show available



Page 1 of 5



Upload Zip to Collab Storage

▼ > examples

__init__.py

my_example.py

← **Example script to run**

▼ > python_models8

> > connectors

▼ > model_binaries

__init__.py

my_model_curr_exp_my_additional_input.aplx

← **Precompiled .aplx**

my_model_curr_exp_my_input_type.aplx

my_model_curr_exp_my_threshold.aplx

my_model_curr_exp_stdp_mad_my_timing_my_weight.aplx

my_model_curr_exp.aplx

my_model_curr_my_synapse_type.aplx

> > model_data_holders

> > neuron

__init__.py

← **__init__.py in each folder**

Run a Zip File from Collab Storage



COLLABORATORY

[HOME](#)[COLLABS](#)[PLATFORMS ▾](#)[HELP](#)[FEEDBACK](#)[FORUM](#)

SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager

Collab Storage Browser

5368

TestFolder

new_models_task_1.zip

fire_collab.py

**Select Zip File and Type
Command
(prefix with -m folder.module - no .py)**

Command

`-m examples.my_example`

Hardware Config

Collaboration

41 members

[Show available](#)

Page 1 of 5



Finding Collabs



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM

HBP Collaboratory Home Public

Navigation

Release Notes

Getting Started

Dashboard

Create a Collab

Software Catalog

▼ Platform Collaboratories

Neuroinformatics 🔗

Brain Simulation 🔗

HPAC 🔗

Medical Informatics 🔗

Neuromorphic 🔗

Neurorobotics 🔗

► Other HBP Websites

► Getting Access

Developers 🔗

Workspace

Release Notes

COLLABS



What's new in the Collaboratory?

This page is dedicated to help you understand what's been recently released in the Collaboratory.
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Release Update, 8th of August 2017

Fixes

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Release Update, 26th of July 2017

Update

- Add a public monitoring status page on various HBP services <https://status.humanbrainproject.org/>

Release Update, 20th of July 2017

Update

Collaboration

7 members - 0 available

[Show all](#)

Finding My Collabs



COLLABORATORY

HOME

COLLABS

PLATFORMS ▾

HELP

FEEDBACK

FORUM



All Collabs

Public

Navigation

All Collabs

Create a Collab

My Collabs

Workspace

All Collabs

My Collabs

20170926_mycollab

20170926_mycollab

ab

ab

About Collab

Collab about collabs

Active conductances and LFPs from single cells

Here is an example of the impact of active conductances on the Local Field Potential from

Collaboration

1 member



15:54

7/19/2017

B

Hi everybody. Still trying to finish week 2

18:33

B

Does anybody know where are the lpython codes ?

18:33

B

I created a collab. I see others collabs but have no tip of the lpython codes that ends the grade of week 2

18:54

Send a message

Here's one I made earlier...

The screenshot shows the Collaboratory web interface. At the top, there's a navigation bar with links: HOME, COLLABS, PLATFORMS, HELP, FEEDBACK, FORUM. On the right, there's a user profile, a menu icon, and a notification badge with '100'. Below the navigation bar, the main content area is titled 'All Collabs' with a 'Public' filter button. On the left, there's a 'Navigation' sidebar with links: 'All Collabs', 'Create a Collab', and 'My Collabs' (highlighted in yellow). The main workspace shows a list of collaborations under the heading 'My Collabs'. The list includes:

- 'SP9 NM compound SCAT M24 FC review collab' (partially visible)
- 'spinnaker test 1 test' (with a lock icon)
- 'SpiNNaker Workshop 2017 Collab' (with a lock icon) - description: 'A Workshop created for the SpiNNaker Workshop'
- 'SpiNNaker Workshop 2018 Collab' (with a lock icon) - description: 'Collab for the 2018 SpiNNaker Workshop' - This entry is highlighted with a red arrow and a large red text overlay.

 At the bottom of the list, there's a 'Load More' button and a 'Scroll top' button. On the right, there's a 'Collaboration' sidebar showing '1 member' and a chat window with messages. The footer contains links: 'Human Brain Project, 2017', 'Cookie statement', and 'Terms of Service'.

Future Changes



SpiNNaker Workshop 2017 Collab

Private

Member

Navigation

ADD

[Overview](#)[Team](#)[Storage](#)[Settings](#)[Guidebook](#)[Job Manager](#)[Resource Manager](#)

Workspace

Job Manager



Create Job

Hardware Platform

Please choose a simulation platform.

Code

Editor

[From Git repository or zip archive](#)[From Collab storage](#)

Please enter your code in the textarea.

Command

Hardware Config

Tags

Input Files + -

Cancel

Submit

Collaboration

40 members - 3 available

[Show all](#)

C

This is the very beginning of the current collab's chat. Start using it to collaborate with your team!