

User Manual

Subscription or Sign In

The IRRAD-Data-Manager (IDM) allows access only to users that are registered in the *irrad-ps-users* mailing list (e-group) of CERN. Users that do not have a CERN account can still register to the mailing list through a lightweight account requested in this [portal](#). If the user is already subscribed in the mailing list then he/she can directly sign in as shown in Figure 1.

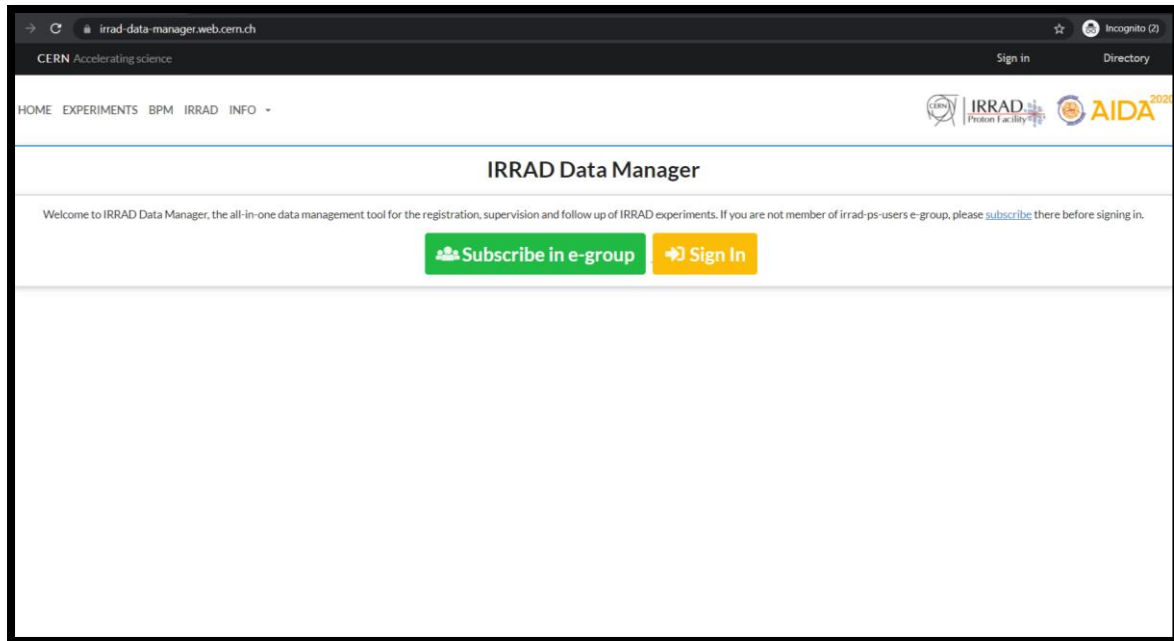


Figure 1: External home page of IDM

Data Registration

As shown in Figure 2, once the user logs in IDM there are two options. *My Experiments* button shows already saved experiments while *Create Experiment* registers a new experiment.

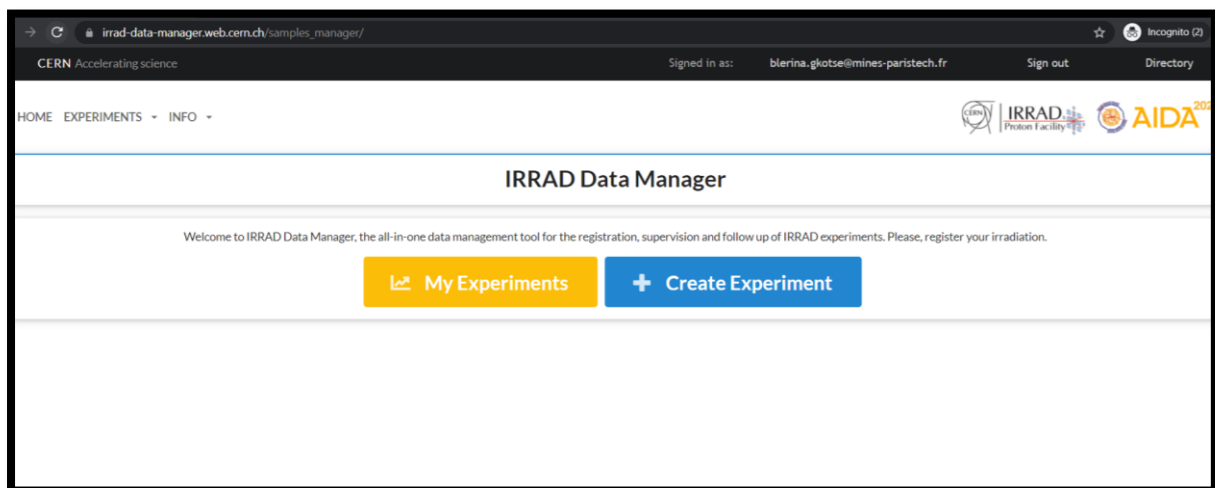


Figure 2: Home view for a logged-in user

The experiment registration is performed by filling the form shown in Figure 3. The information requested is an indication of the irradiation experiment that need to be planned. Detailed information about the samples will be provided once the experiment gets validated.

The screenshot shows a web browser window with the URL `irrad-data-manager.web.cern.ch/samples_manager/`. The page has a dark sidebar on the left with navigation links: HOME, EXPERIMENTS, and INFO. The main content area displays a registration form titled "Step 1" (with "Step 2" and "Step 3" also visible as tabs). The form contains the following fields:

- Irradiation experiment title ***: A text input field with the placeholder "Please, provide a unique title for your irradiation experiment."
- Description ***: A text input field with the placeholder "Please, provide a short description of your experiment."
- CERN experiment/Projects ***: A text input field.
- Responsible person ***: A dropdown menu showing the email `blerina.gkotse@mines-paristech.fr`.
- Emergency telephone number ***: A text input field with the placeholder "Please, provide a telephone number in case of emergency."
- Availability ***: A text input field with the placeholder "When your samples will be available for irradiation."
- Constraints**: A text input field with the placeholder "Please, provide any time constraints, e.g. test beam."

At the bottom of the form are two buttons: "Cancel" and "Next".

Figure 3: Registering a new experiment

Experiment Fields

- **Irradiation experiment title** (Field required): A unique name for the irradiation experiment.
- **Description** (Field required): Short description of the irradiation experiment.
- **CERN experiment/Projects** (Field required): CERN Experiment that the irradiation experiment is associated, if does not exist users can fill a new one.
- **Responsible person** (Field required): The e-mail of the person that will be responsible for the specific irradiation experiment.
- **Emergency telephone number** (Field required): A telephone number in case of emergency.
- **Availability** (Field required): The time that the samples will be ready for irradiation.
- **Constraints** : Any constraints regarding the irradiation experiment (e.g. time constraints due to test beam)
- **Irradiation type** (Field required): The radiation field required:
 - protons: normal IRRAD operation based on the proton.
 - heavy ions: if beam schedule allows some weeks per year.
 - pions: irradiation campaigns at Paul Scherrer Institute – PSI once every 2-3 years, depending on the request and the PSI availability.
- **Number of samples** (Field required): An estimation of the total number of samples to be irradiated.
- **Category** (Field required): Three categories of irradiation experiments are provided in the IRRAD facility:

- Passive Standard: irradiation without readout electronics for an irradiation area of 5×5 mm², 10×10 mm² or 20×20 mm². Users should select at least one irradiation area.
- Passive Custom: irradiation without readout electronics of bigger or smaller irradiation area than the Passive Standard category. Some
- Active: irradiation with readout electronics

In the case of selecting *Passive Custom* or *Active* category, some additional information should be provided. These are:

- Type (Field required):
 - Cold box irradiation (-25°C): samples get irradiated inside a cold box with temperature down to (-25°C).
 - Cryostat (< 5 K): samples get irradiated inside a cryostat with temperature less than 5 K.
 - Room temperature (~ 20 °C): samples get in room temperature (~ 20 °C).
- Irradiation area (Field required): The area of the samples that is going to be irradiated.
- Modus operandi (Field required): Details about the way of operation.
- **Requested fluence (protons/cm²) (Field required):** Requested values of fluences for the different samples. The correspondence of the fluences with the samples will be done when the experiment will be validated.
- **Types of sample (Field required):** Material type of the samples E.g. silicon detector, fiber optics, etc.
- **Additional Comments:** Any additional comments for the irradiation experiment.
- **Please accept terms and conditions (Field required):** Acknowledgement of the terms and conditions of IDM and irradiation experiment operation in the IRRAD facility.
- **Would you like to make your experiment details public to other IRRAD users.**
This will allow you to view other users' experiments, too: By accepting this field, the experiment details will be visible to other IDM users through *SHARED EXPERIMENTS* page and the users will be allowed to view other shared experiments, as well.

Once the experiment is registered, it will appear in the list of experiments.

Users need to wait the validation of the experiment by a member of the facility team that has administrator rights before being able to add the samples details or additional users to their experiment.

CERN Accelerating science Signed in as: [berina.gkotsis@mines-paristech.fr](#) Sign out Directory

HOME EXPERIMENTS INFO

IRRAD Data Manager

My Experiments

Actions Filters

Back Create Update Close Update visibility Delete

	Last update	Experiment title	Availability	No. samples	No. users	Visibility	Status
<input type="checkbox"/>	28/06/2021	test ina 28_06_2021	24/06/2021	1	1	Public	Registered
<input type="checkbox"/>	12/03/2021	Test 12_03_2021 1	19/03/2021	1	2	Public	Registered

1 elements per page

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HOME EXPERIMENTS INFO

IRRAD Data Manager

My Experiments

Actions Filters

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	Last update	Experiment title	Availability	No. samples	No. users	Visibility	Status
<input checked="" type="checkbox"/>	28/06/2021	test ina 28_06_2021	24/06/2021	1	1	Public	Registered
<input type="checkbox"/>	12/03/2021	Test 12_03_2021 1	19/03/2021	1	2	Public	Registered

1 elements per page



Shared Experiments

In addition to the main functionalities, the users have also the possibility to see other past or ongoing experiments of the facility (if the permission is given by the experiment responsible person) in order to find any useful information or publication for them or contact the responsible person for more information. An example of the history page is shown in Figure 9.

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HOMEEXPERIMENTSBPMIRRADINFOADMINPREFERENCES



IRRAD Data Manager

General Terms

The access to the IRRAD area is given once per week (Wednesday morning from 9:00 to 12:00) to allow the installation/removal of large samples and experimental test setups. Samples installation on the irradiation tables requires dedicated support frames provided by the users. Depending on the samples nature, the preparation of an irradiation permit (PRP17) may be required before the irradiation begins (<https://edms.cern.ch/document/1717433>). This safety procedure may require several weeks to be completed.

Users are requested to be present at CERN in case their samples have to be handled before and/or after irradiation (e.g. to prepare them for shipping outside CERN).

Installation/removal of complex experiments on the irradiation tables require the presence of a minimum of two people from the users' team on site. Users are responsible for obtaining the required safety training ranks, access rights, personal (DIS) and operational dosimeters (DMC), as well as all required Personal Protective Equipment (safety shoes, helmet) before the scheduled access slot. All requirements to be able to access the IRRAD irradiation area are available [here](#).

The IRRAD facility is supported through the AIDA-2020 Transnational Access (TA) program.

- 1 All accepted user teams in 2018 must fill in an [AIDA-2020 TA form](#) and have the possibility to request a financial support for their irradiation experiment, if needed. In case financial support is required, please contact in advance the AIDA-2020 TA facility Coordinator for IRRAD (Michael.Moli@cern.ch).
- 2 Publications (journal/conference papers, notes, reports, etc.) from the user teams with results related to the AIDA-2020 TA experiments in IRRAD should include the [AIDA-2020 acknowledgement text](#).
- 3 More details about the AIDA-2020 Transnational Access program are available [here](#).

Figure 11: General terms