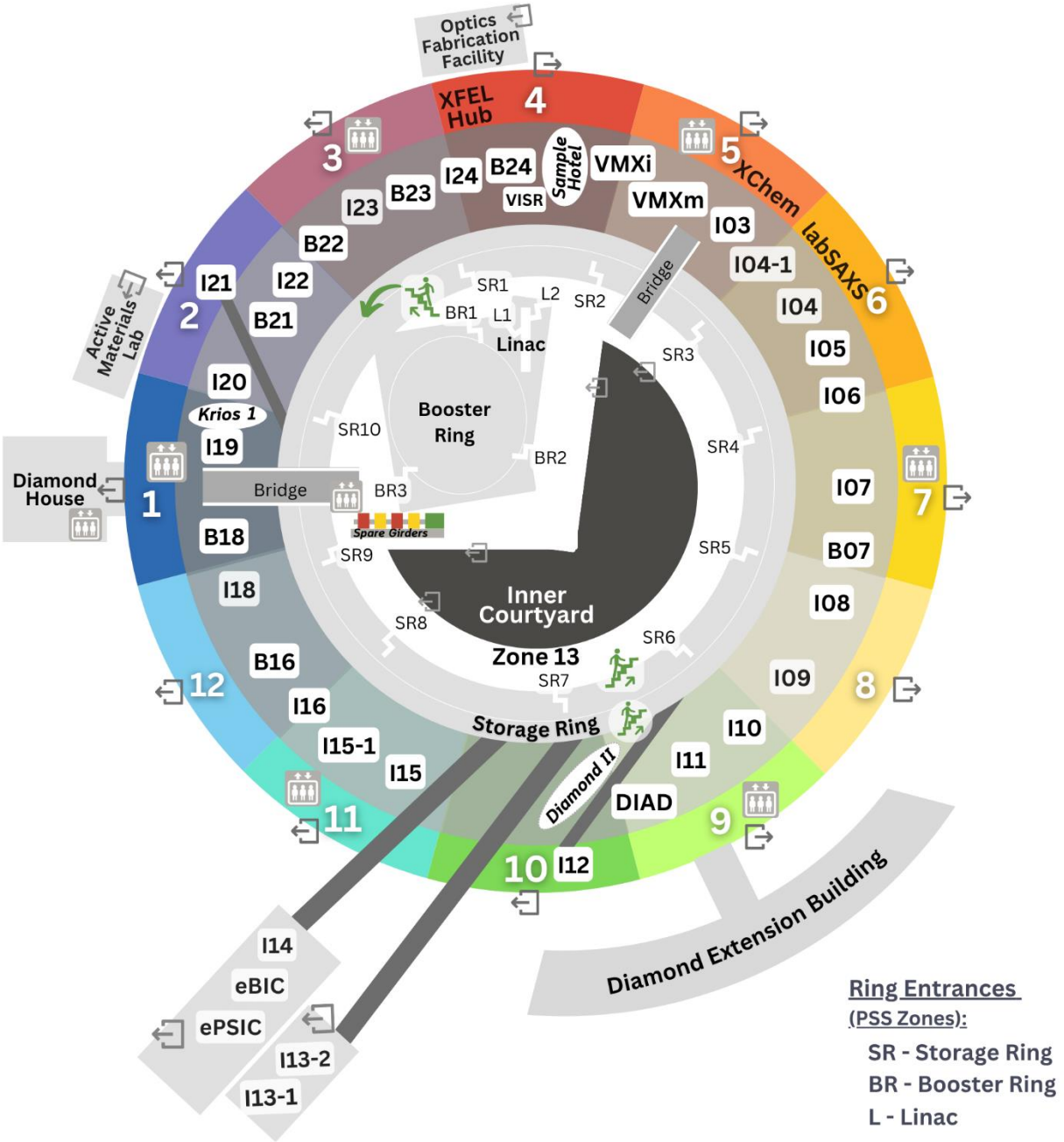
Welcome to Beamline I05

Location

The beamline is located at the ground floor of the synchrotron building in Zone 06.



Parking

Parking is normally available at the visitor parking but a designated space close to the entrance of Zone 06 can be prebooked if needed. Please let your beamline local contact know if you require this space reserved for you, as well as your intended dates on site no later than 15 days before your first scheduled day with us.

6A is an ordinary space and 6B has driver's side access space.

There is a dropped curb from the road to the pathway.

Access to the beamline

There are two possible ways to access to the beamline

A) Zone 6 entrance door (ground floor)

The zone 6 entrance door is located closest to the beamline. You will need to present your valid badge to the sensor to release the door. This will cause the light to flash on the card reader and a beeping sound. (The door will lock if not opened six seconds, which is signified by the card reader no longer beeping or flashing.) The door is 76 cm wide and a pull to open door and can be heavy to open with one hand.	

Once through the door, you will find stairs to the first floor, where refreshment facilities are located. An accessible toilet is located to your left. To access to the experimental ring there is another power assisted door of 90 cm width which can be opened by pressing the power assist button.

B) Entrance by Diamond House building (first floor)

Entry into the synchrotron building can also be made via the covered bridge between Diamond House and the synchrotron building.

Once through the three sets of doors, you will find stairs and a lift to the ground floor, where the beamlines are located. At the bottom of the stairs/lift, there is another set of doors with a power assisted button which gives access to the experimental hall floor.

Once through this door there is a safety rail straight ahead positioned 96 cm from the door.

Exiting the synchrotron building

To exit outside by any door, you need present your access card. For the Zone doors, after swiping your badge you will need to press a dome button to unlock the doors.

User's time at the beamline

During experiments users have access to the control room, the experimental cabins, and the sample preparation room.

Control room

The control room is the main area used by the users. From this room, users can fully control the end-station in order to optimise the sample alignment and carry out the desired measurements. In addition, there is some space and desks to analyse the data, to discuss the project or to relax.

Local rules: no samples in this room to prevent cross contamination.

The control room is accessible via the HR experimental cabin through a 95 cm pull open door or via another door from the experimental hall back corridor. There are no steps or door sills.

HR experimental cabin

The HR experimental cabin is relatively large with two 85 cm wide doors. Users can install and cleave their samples in the experimental chamber here. The chamber is elevated of 57 cm off the floor and there is are three steps to the platform with a handrail to the left.

Access to the He deward

The access to this room is via the experimental hall or the control room. There is a large window to be able to see into the HR cabin when seated in the control room.

NanoARPES experimental cabin

The nanoARPES experimental cabin is rather small with two 80 cm wide doors. This is where the users install and cleave their samples in the experimental chamber. The path around the experimental cabin is 80 cm at its narrowest point. The chamber is elevated with a limited platform and three steps. Adjustments are made a little above head height when standing.

Due to the presence of the liquid helium for the low temperature, the room is equipped with oxygen depletion alarms (audible).

The access to this room is via the experimental hall or the control room. There is a large window to be able to see what happened in the nanoARPES cabin when seated in the control room.

Sample preparation room (SPR)

In this room the users carry out the in-air sample preparation using microscope, glue, wire bonding or cleaning parts for UHV. A glove box is available for air sensitive samples. The glove box is at a fixed height. When the samples are ready they are transferred to the experimental chamber (HR or nanoARPES).

Solvents are used in this room, as part of the cleaning procedure.

Local rules: no food and drink in this room to prevent cross contamination.

Access to the sample preparation room is via the experimental hall or the HR experimental cabin. There is a large window between the nanoARPES cabin and the control room.

Please note that due to lead and concrete shielding, there are many areas in Diamond that have poor mobile network coverage. If you have difficulties using desk phones, or reduced mobility that you feel may hinder your ability make a call from a desk phone in an emergency, please let us know and we can either provide a wi-fi phone or help you setup your own device to make calls over our network connection, if this is possible.