

6.2 Lay-out

The lay-out is shown in figure f62_a. The ring shaped main building houses the experimental floor and the accelerator tunnel as well as the floor space for the injector, the general technical infrastructure of the accelerators, preparation space like magnetic measurement, girder assembly area, bakeout area as well as office and laboratory space for 28 persons. The conventional technical infrastructure like water pumps, refrigerators, cooling towers etc. are located in a separate technical building situated close to the north entrance adjacent to the underground tunnel for the different media. The gross surfaces are:

- experimental area proper: 4800 m²
- outside traffic space around the exp. area: 1000 m²
- accelerator tunnel area including shield walls: 1700 m²
- accelerator technical area (incl. pre-injecor and shield walls): 3800 m²
- inner office and lab building: 1000 m²

The area on the north west side between the hall and the existing PSI buildings is reserved for an optional later laboratory and office building. This optional building is not included in the SLS budget. Whether or not to build this office and laboratory extension will depend on the success of trying to house in a functional way the remaining SLS staff as well as the expected 30 external SLS users in other PSI buildings which are foreseen to be liberated due to the restructuring of the mission of the PSI.