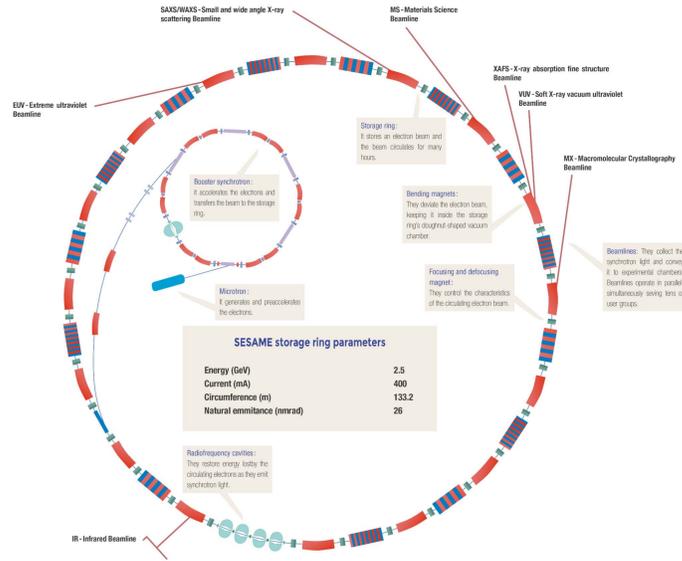


SESAME is the first international 3rd generation synchrotron light source in the Middle East region, was officially opened in Allan (Jordan) on 16 May 2017. SESAME building is located in Allan, Jordan, almost 35km north-west of Amman



SESAME storage ring is composed from 16 cells connected with straight sections. Each cell is composed from one Girder, each girder holds one Dipole magnet in the middle, four sextupoles, two long quadrupoles, and two short quadrupoles.



Installation, Step by Step

Step 1: Floor Marking

Step 2: Cutting Upper Layer

Step 3: Inserting Fixing Rods

Step 4: Girder Baseplate Alignment

Step 5: Grout Injection; Epoxy Resin

Step 6: Cutting the Screws

Step 7: Baseplates Ready

Step 8: Lifting Girder, by Crane

Step 9: Girders Fixed on Baseplates

Step 10: Vertical Adjusting System

Step 11: Adjusting System

Step 12: Lifting Dipole, by Crane

Step 13: Dipole Lowered on Girder

Step 14: Multipoles Fixed on Girder

Step 15: Multipoles Upper-half removed

Step 16: Dipole Movement System

Step 17: Installing Vacuum Chamber

Step 18: Chamber installed, Dipole Pulled back

Step 19: Multipoles Upper-half reinstalled

Step 20: Pins & Shims, Self-aligned Magnets

Step 21: Fiducial Pt.

Step 22: Laser Tracker, Final Alignment

The commissioning trials of the machine started with the conditions of good alignment. After few days of injection trials it was possible to circulate and accelerate the beam. The successful circulation and acceleration of beam verifies the great installation and alignment with no gross error in alignment. SESAME is now passing from the stage of construction to the phase of exploitation. A number of technically oriented scientists and engineers from the Members participated actively in the design and construction of the facility and this provides a valuable stock of professionals when some of the Members will build their own SR facilities.

All girders and magnets are installed, straight sections are installed. All connections were done. SR is under vacuum. Ready for Commissioning