

SESAME

Synchrotron-light for Experimental Science and Applications in the Middle East

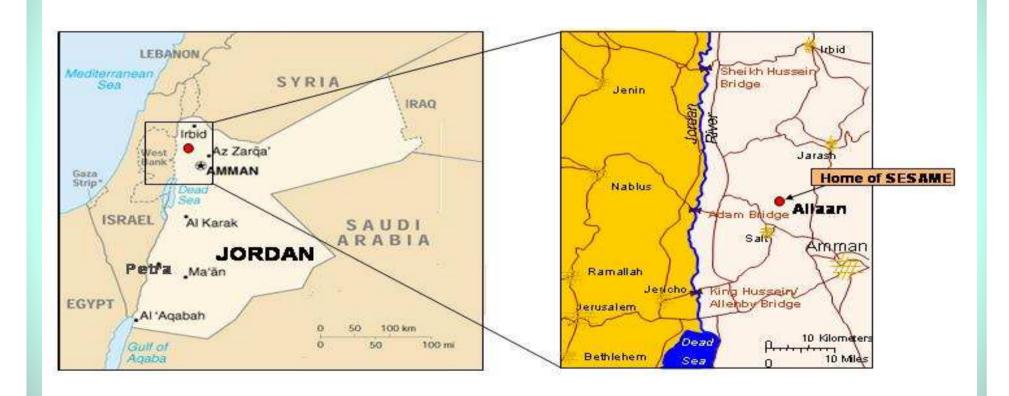
Khaled Toukan Director

IAEA, May 29, 2013





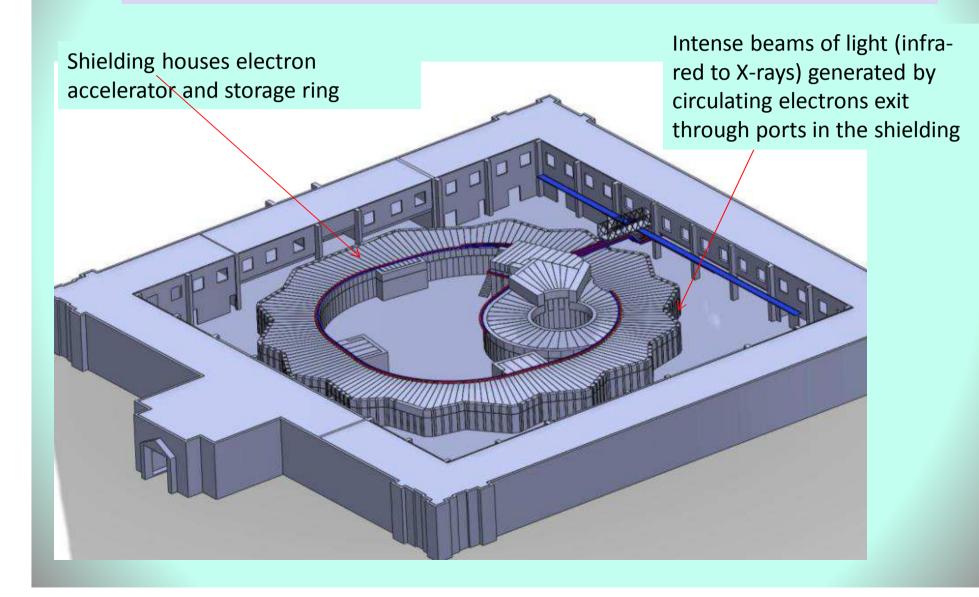
Location of SESAME



SESAME location in Allan, Jordan



Inside the SESAME Experimental Hall Schematic



SE SESAME GROUND BREAKING CEREMONY - 6 JANUARY 2003







Inside the SESAME Building; May 2008

Shielding Under Construction, November 2010



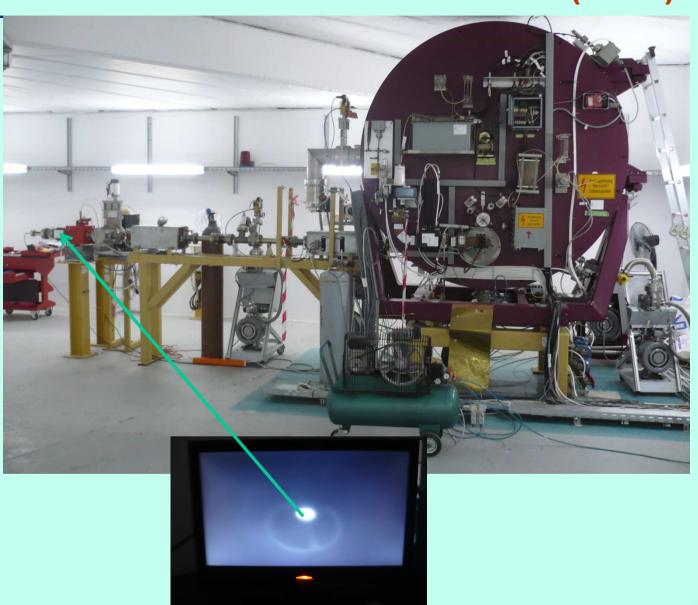


Shielding Completed, May 2011





Beam in the Transfer Line 1 – (2012)





Open Roof of the Booster Area, Magnets Installed





Cooling System and HVAC



Cooling Towers



Booster Air Conditioning Unit



Cold Water Tank



Heat Exchanger





SESAME Experimental Hall May 2012





Energy; 2.5 GeV

Circumference; 133m

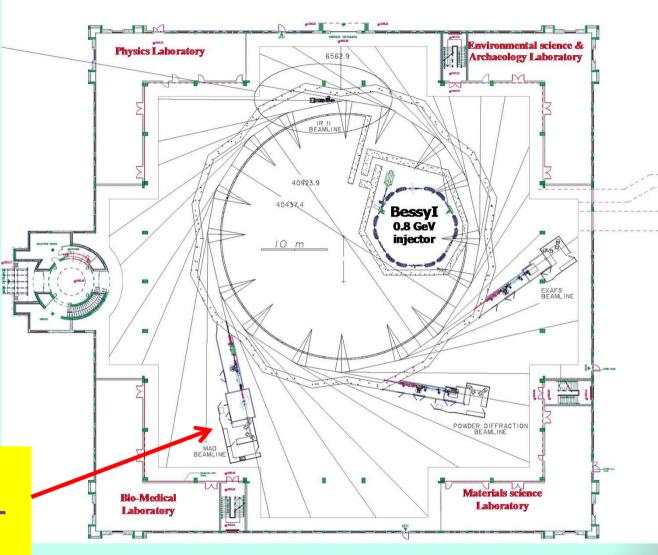
12 Insertion Devices

13 Bending Magnet beamlines

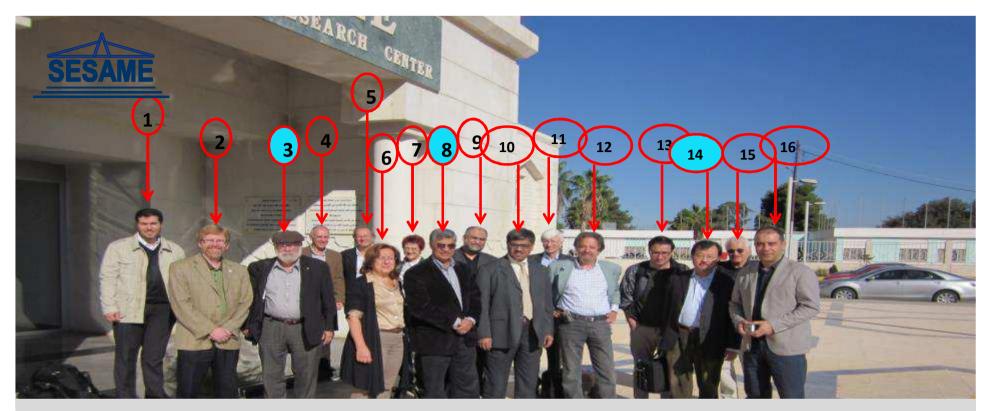
Maximum beamline length; 37m

Space for future full energy injector in main ring tunnel

Beamlines focus intense light (infrared to X-rays) on experimental targets



SESAME; under construction in Jordan www.sesame.org.jo



SESAME benefits from the expertise of leading world scientists who serve on the Scientific & Beamlines Advisory Committees (seen here in November 2010) and the Technical Advisory Committee

1- SESAME (Jordan) 2- CLS (Canada) 3- Stanford Univ. (USA) 4- ALBA (Spain) 5- Soleil (France) 6- Sabanci Univ. (Turkey) 7- Eletrra (Italy) 8- ALS (USA) 9- Soleil (France) 10- SESAME (Jordan) 11- Oxford Univ. (UK) 12- CERN (Switzerland) 13- Al-Quds Univ. (Palestinian Authority) 14- LBNL (USA) 15- PSI (Switzerland) 16- Hacettepe Univ. (Turkey)



Training Programme

- Users Meetings, Workshops, Individual Training (Visits, Fellowships..)
- Funding from

International Organisations: IAEA, UNESCO, ICTP, ESRF

External National Organisations & Synchrotron Labs: Brazil, France, Germany, Italy, Japan, Portugal, Spain, Sweden, Switzerland, Taiwan, UK, USA (DoE)

Organisations from Member States: Cyprus, Egypt, Iran, Israel, Jordan, Turkey

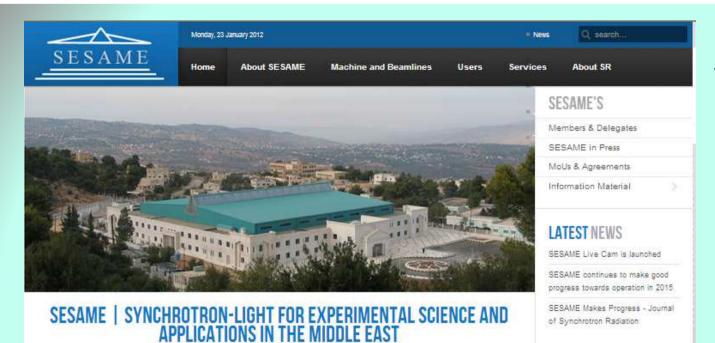
Scientific Societies: APS + EPS + IOP + DPG + ACS + NAS

Foundations: Canon, Lounsbery

LinkSCEEM Project (Cyprus): High Performance Computing (HPC) in the

Eastern Mediterranean Region

Topics include: Accelerator Physics, Beamlines, Scientific Applications



PRESS RELEASE

" SESAME continues to make good progress towards operation in 2015"

The SESAME Council met in Ankara on 7 and 8 December 2011. Welcoming delegates, Dr Zafer Alper, President of the Turkish Atomic Energy Authority, stated

READ MORE

NEWS HIGHLIGHTS

9th SESAME Users' Meeting & SESAME-JSPS School

9th SESAME Users' Meeting and SESAME-JSPS School

Summary
9th SESAME Users' Meeting SESAME - JSPS School 12
- 18 November 2011

Benefits and Obligations of Members of SESAME

THE MICROTRON FULL ENERGY BEAM SHOWS UP

On Monday November 28, 2011 at 1:13 AM, the Microtron beam has been successfully extracted from its final orbit (orbit 42) to be the full energy beam with 22.5MeV

READ MORE

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SESAME ON MAP



CONTACT US

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SESAME is a Competitive 3rd Generation Synchrotron Light Source



Further information about SESAME and potential SESAME Users can be found at

http://mag.digitalpc.co.uk/fvx/iop/esrf/sesamebrochure/

and

http://mag.digitalpc.co.uk/fvx/iop/esrf/sesamepeople/

These can be downloaded from the SESAME website

www.sesame.org.jo

Thank you