



**Workshop on Scientific Case for BEATS
- Beamline for Tomography at SESAME -
27-28 June 2019**



The Cyprus Institute (Cyi), Nicosia, Cyprus



*****abstract submission deadline extended to 26 April 10 am (GMT+3)*****

A new beamline is being designed for SESAME synchrotron (www.sesame.org.jo), enabling research using tomography from 2022 onwards. This workshop focuses on exploring various application domains of high-resolution synchrotron radiation (SR) tomography, and in specific, applications relevant to the SESAME region (Cyprus, Egypt, Iran, Israel, Jordan, Turkey, Pakistan, Palestine). The tomography beamline will be designed, constructed, and commissioned by the EU H2020 funded project BEATS (Beamline for Tomography at SESAME; [<https://beats.esrf.fr/>]). A number of clear application domains in the SESAME region have already been identified, including (1) Archaeology and Cultural Heritage; (2) Health and Biomedicine; (3) Geology; and (4) Materials and Nano Science, and Engineering. The workshop is open for participation by all researchers and interested parties across academic disciplines, industry, governmental services, and other interested parties, regardless of domain, as any area with material samples can benefit from the application of high-resolution tomography to specific problems or research questions. Invited presentations lay the ground for discussions on applications, and how these may feed into the design of the tomography beamline, the first in the region. Talks will cover the following topics: Status of SESAME, BEATS layout and plans, applications of tomography in Archaeology, Cultural Heritage, and Paleontology, in Health and Biomedical research, in Geology, in Chemical and Industrial Engineering, in fuel cells and battery research, and in Materials and Nano Science, as well as the role of managing big data. Invited speakers include: Giorgio Paolucci (SESAME), Marco Stampanoni (PSI), Alexander Rack (ESRF), Kirsi O. Lorentz (Cyi), Paul Tafforeau (ESRF), Mirjam van Daalen (PSI) and others. Further presentations (podium and/or poster) are accepted via submission of an abstract (max 300 words) via <https://indico.esrf.fr/indico/event/28/> by **26 April 10 am (GMT+3)**. The workshop will take place 27-28 June 2019 (from noon to noon) at the Cyprus Institute (www.cyi.ac.cy) in Nicosia, Cyprus. There are no workshop fees (participation in the workshop is free of charge), however all participants are asked to register (<https://indico.esrf.fr/indico/event/28/> by 26 May (23:59) for better organization, and each participant/institution is responsible for their own flight, accommodation and subsistence costs, unless otherwise advised. Coffee breaks are offered by the workshop for all participants. Further information is available at <https://indico.esrf.fr/indico/event/28/>, at <https://beats.esrf.fr/>, and via email (sciencecaseBEATS@cyi.ac.cy; k.lorentz@cyi.ac.cy). We look forward to welcoming you to Cyprus on the occasion of the BEATS Scientific Case Workshop.

**** PLEASE CIRCULATE WIDELY TO ANY FURTHER INTERESTED PARTIES ****

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