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## **Synchrotron radiation for research in Engineering Sciences : Prospects at SESAME**

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During the last couple of decades the use of synchrotron radiation (SR) has increased considerably for investigations in biosciences.

SESAME (Synchrotron-light for Experimental Science & Applications in the Middle East) is an international research center in Jordan jointly pursued by the European Union and numerous developing countries (including Pakistan). It will facilitate world-class research by scientists (in subjects ranging from biology and medical sciences through materials science, environmental science, physics, to archaeology).

With the development of SESAME there is a need to setup a network consisting of scientists, engineers and academicians; and to expand it in order to have an active users' community of synchrotron radiation in Pakistan. Being motivated by a relatively easy availability of such an expensive and high-valued facility for the scientific community in Pakistan, the present paper not only introduces the basic ideas regarding the synchrotron light but also gives a brief overview of the use of Synchrotron Radiation for research in Engineering Sciences. Some thoughts for building up a more lively users community of synchrotron radiation consisting of students and faculty members of universities in Pakistan have been highlighted.

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