



International Webinar on Quantum Computing

by
Prof. Paul Stevenson
University of Surrey, United Kingdom



About the Webinar

Quantum computers are new devices that process information in a fundamentally different way to traditional computers, making use of the laws of quantum mechanics. They give rise to the possibility of new kinds of algorithms that perform tasks more efficiently than existing computers. A famous example include Shor's factoring algorithm which holds the promise of efficient factorising of large composite numbers, with consequent possibility of breaking the current encryption standards. Actually building functioning quantum computers is a challenge, and while there are many people working on it, the available quantum computers do not yet enable us to fulfil the promises, but progress is rapid. In this talk, Prof Paul Stevenson will discuss what quantum computers are, what they can do in principle, and what the roadmap is for the practical appearance of this transformative technology. For more information on Prof. Paul Stevenson's research work, please visit his profile: <https://www.surrey.ac.uk/people/paul-stevenson>

About Akal University

Akal University, Talwandi Sabo, Bathinda, is a value-based institution dedicated to excellence in teaching, research, and societal engagement. The university promotes interdisciplinary and research oriented education with a strong emphasis on science and technology. With modern infrastructure and a supportive academic environment, the university provides an ideal venue for advanced training programmes and international scientific workshops. Unlike most of the educational entities having commercialized the higher education by operating like business ventures, the Akal University has mandated to uphold the three basic principles of higher education namely; Teaching, Learning and Research. Consequently, the University has started with Undergraduate and Postgraduate and Ph.D programmes in basic sciences and languages.

Date & Time

**Wednesday
21st January 2026,
3:00 PM IST**

Registration



<https://forms.gle/mMHhxqjVFPfRku96A>

Zoom Link will be shared
after registration

About Department of Physics

The Department of Physics, established in 2015 with the inception of Akal University, has emerged as a vibrant centre for teaching, research, and innovation in physics. The department offers B.Sc. (Hons.) Physics, B.Sc. Multidisciplinary (NEP-2020 aligned), M.Sc. (Hons.) Physics, and Ph.D. programmes in experimental and theoretical physics. Supported by a dedicated team of highly qualified faculty, the department's research spans condensed matter physics, materials science, nanotechnology, quantum optics, nuclear physics, and high-energy physics. Active national and international collaborations, along with regular seminars, workshops, and invited lectures, foster a dynamic and research-oriented academic environment.

Scientific Programme

- Expert talk on Quantum Computing by Prof. Paul Stevenson
- Q&A opportunity to clarify queries on quantum computing



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