



Albert Einstein 1879 – 1955

by Dr Roger Luther

Thames Valley Network



Friday, 23rd June 2017 from 10.15am – 3.30pm
Benson Parish Hall, Benson. Oxon. OX10 6LZ

An elementary introduction to Einstein's contributions to modern physics. Just over 100 years since his famous theory of General Relativity was published, we will look at the entire range of work of this iconic scientist. No previous knowledge of maths or science is required in order to enjoy the day. There will be time for questions at the end of each section.

Provisional programme:

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| 09.45 | Registration |
| 10.15 | 1905 – Einstein's "annus mirabilis" the discovery of Special Relativity, the photoelectric effect, Brownian motion and the existence of atoms. |
| 11.30 | Coffee break |
| 11.45 | General Relativity – gravity as the bending of space-time, leading to ideas of black holes, the Big Bang and gravitational waves. General Relativity and your Satnav! |
| 13.00 | Lunch |
| 14.00 | Einstein and Quantum Theory – an uneasy relationship. The EPR experiment, the meaning of quantum theory and the Multiverse. Recent developments in relativity, including worm-holes and M-theory. |
| 15.30 | End |

Dr Roger Luther is an active member of Preston Park U3A, where he leads courses on Maths, Cryptic Crosswords and Science and Religion, as well as a monthly pub quiz. Having taught in secondary schools until 2000, he then moved into higher education, and after achieving a PhD in maths at Sussex University, he has been lecturing there ever since, also earning an MSc in Particle Physics, as a student! He has had a life-long interest in theoretical physics and has led other U3A Study Days on both Einstein and Cosmology.

The day is open to all members of U3As in the Thames Valley Network (members of U3As not in the TVN are welcome at an extra cost of £2 per person). One application form per person please. These are available on the TVN website.

www.u3atvnetwork.org.uk The cost for the day includes tea / coffee and lunch.

Closing date for applications Friday, 2nd June 2017

Queries should be addressed to Susie Berry at chairman@u3atvnetwork.org.uk or Telephone 07966 132738

N.B. Applications will be taken in strict order of postmark but will not be acknowledged until after Easter owing to commitments abroad.