

THE DARK SIDE OF THE UNIVERSE

PROFESSOR JOE SILK



Thursday August 16th at 6.45pm

Sir Thomas Brisbane Planetarium

Bookings are essential

Free parking available adjacent to the
Planetarium

Joseph Silk, Professor of Astronomy at the University of Oxford, is a world leader in the field of theoretical cosmology, seeking insights about dark matter, galaxy formation, and the relic glow from the Big Bang. During a public lecture, Dr. Silk will discuss how the old Big Bang cosmology from the Einstein era has evolved in recent years from the old Big Bang cosmology of the Einstein/Friedmann/Lemaitre era.

The ensuing emergence of cosmic structure is an outcome that has been studied by peering back through the mists of time and deciphering the fossil structure of nearby galaxies, knowledge about the most remote objects in the universe can be obtained. One of the greatest mysteries in the cosmos is that it is mostly dark. That is, not only is the observed night-sky dark, but also most of the matter in the universe --- whose existence is clearly inferred from the observations --- is dark. For every atom visible in planets, stars and galaxies today there exists at least five or six times as much "Dark Matter" in the universe. Astronomers today are seeking to unravel the nature of this mysterious, but pervasive "Dark Matter", and determine whether it can ever be detected.

Arrival at 6.45 pm for refreshments. 7.30 pm start of session in the Cosmic Skydome. The presentation will run for approximately one hour. *Please note no admittance after the 7.30 pm session has started.* Bookings are essential and are on a first come basis made via the Planetarium's Booking Office on (07) 3403 2578, Tuesday to Sunday between 11 am and 4pm. Sir Thomas Brisbane Planetarium is located on Mt Coot-tha Road, Toowong, Brisbane 4066. As seating is limited, unfortunately we have to restrict group bookings to a maximum of 8 people.

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