

# Exploratory Talks Program

**10:30am--Matt Dodds - How to Explore the Night Sky with a Telescope**

**11:00am--Matthew Colless - A Spectacular New View of the Universe**

The first results from the James Webb Space Telescope are now in, and they are spectacular! We are seeing galaxies forming just after the Big Bang and the atmospheres of planets orbiting other stars. Come and see the marvellous pictures from the most powerful new telescope in space!

**11:30am--Jonti Horner - The Search for Alien Worlds**

Once upon a time, astronomers wondered: 'Is the Solar system unique, or could there be planets orbiting distant stars?'. The past three decades have seen the dawn of the Exoplanet Era - and where we once knew of no planets beyond the Solar system, we now know that planets are ubiquitous - that almost every star will have planets of its very own. In this talk, UniSQ's Jonti Horner will take you on a journey through the Exoplanet Era, explaining how we discover planets around other stars, and how Australian astronomers continue to play a vital role in the global search for alien worlds.

**12:00pm--Sven Buder - How a Very Special GALAH Creates Stellar Rainbows at Night**

When it rains on a sunny day, we can often see the most beautiful rainbows. Join me to find out how we can also create rainbows at night with the help of a very special GALAH – and what secrets may be hidden at the end of these rainbows.

**13:30pm--Tony Lewis - Distance Stars, Planetary Rings, The Solar System and how we Circle the Sun**

**14:00pm--Q & A time**

**14:30pm--Susan Scott - 2022 BOK LECTURE**

**Surfing gravitational waves to probe the dark side of the Universe**