



**CAASTRO**  
ARC CENTRE OF EXCELLENCE  
FOR ALL-SKY ASTROPHYSICS

## CAASTRO in the Classroom

### “Learning about the Universe using Supercomputers”

Astronomers can only use telescopes to understand how stars or galaxies looked backwards in time, as the light these objects emit has sometimes taken billions of years to reach us. So we unfortunately can't use a telescope to learn how the same galaxy looked at a different point in time. For these reasons, astronomers have constructed computer models of clusters of stars, galaxies, and the large scale structure of the Universe to understand how these fascinating objects evolve. As there are so many stars and galaxies in our Universe, we need computers many thousands of times more powerful than a standard desktop computer.

You and your students are invited to get involved in this great adventure and join **Anna Sippel** as she guides us on a tour of these incredible alien worlds. This talk will cover topics mainly from the **Cosmic Engine** and **Space and Astrophysics** modules of the **Physics Stage 6 Syllabus**.

The session will run on **Wednesday 31<sup>st</sup> July 2013 11:00am - 11:45pm**

There is no charge for schools to participate. Please register by completing the booking form at the bottom of the webpage):

<http://www.caastro.org/bookings>

You can learn more about our program at <http://www.caastro.org/citc> or by emailing [citc@caastro.org](mailto:citc@caastro.org)

Dial in number on your videoconference unit (VMR): 601056104



Anna Sippel is an astronomer from the University of Swinburne and ESO Santiago and uses supercomputers to understand how the cosmos has evolved from the beginning of time through to the current day.