

Slow Light:

Who said light *always* travels at c ?

Scientists throughout the world are racing in the research of what is commonly termed 'slow light' - light that travels at speeds significantly lower than c . This research promises to have impact on applications in a variety of fields from telecommunications (eg. optical buffers) to quantum computing.

Slow light has been observed in a variety of physical systems, from common semiconductor optical devices, to atomic systems such as ultra-cold atomic vapor.

In research conducted at the University, we investigate slow light in fiber Bragg gratings: optical fibers with embedded nano-scaled structures.

Come to a lunch time introductory session:

- **Short presentation** by Joe Mok, a PhD student in Physics:
 - Why slow light is so exciting
 - Principle of and common issues with slow light
 - The way we slow it down at the University of Sydney
 - Everything about the experiment, and the equipment we use
- **Tour of the very lab** where it's all happening!
- **And of course FREE Pizza!**

When: 1pm, Thursday 3rd August, 2006

Where: LT2, School of Physics

Cost: FREE!

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