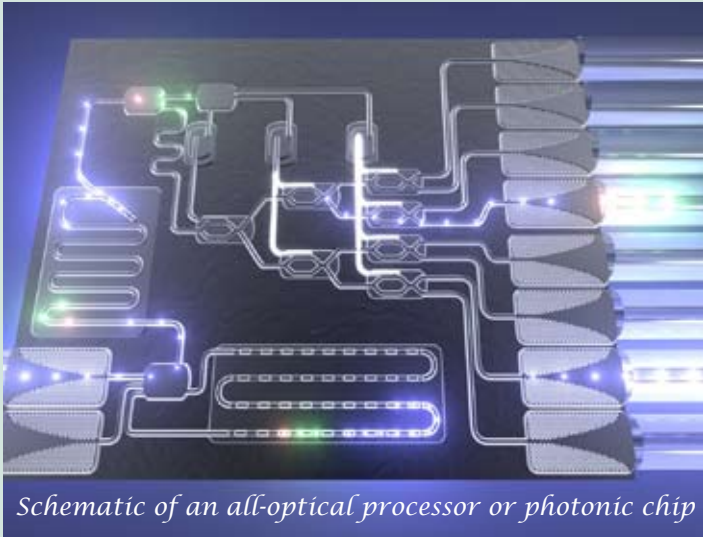


An invitation to senior undergraduate students to attend a CUDOS tutorial workshop in Sydney.

ALL-OPTICAL SWITCHING: TOWARDS A PHOTONIC TRANSISTOR

What is a photonic transistor and why are they exciting? If you are a 3rd or 4th year student in Science or Engineering, come and find out at a Tutorial Workshop at Coogee Beach, Sydney!



The speed of electronic transistors is intrinsically limited...

Recent advances in photonics have shown that optical transistors, in which light switches light, can be much faster than electronic transistors, while being small enough to fit on a photonic chip.

How do those new optical transistors work? Why are they faster? What is the physics behind them? What is wrong with electronic transistors? Will these new optical transistors replace electronics in the next generation of internet, or even in computers?

CUDOS is opening up one of their research workshops to students, adding an introductory tutorial day, so come and learn from the top researchers in the field!

... Is the future all-optical?



CUDOS is offering 3rd and 4th year science and engineering students a unique opportunity to learn more about these exciting devices, in an original 2 day Science School and workshop with the leading researchers in the field in Australia. If you are selected, we will pay your airfare and airport transfers to the hotel, twin share accommodation at Coogee Bay Hotel and all meals.

Where: Coogee Bay Hotel, Coogee Beach, Sydney

When: 27th and 28th of September, 2007

What will I do there?

Thursday: Attend tutorial sessions specially designed for 3rd and 4th year students giving an introduction to the fascinating physics behind optical switching and the exciting potential for applications in broadband communication networks. Relax Coogee-style with the University of Sydney and Australian National University Optical Society of America Student Chapters.

Friday: Participate in a CUDOS Research Workshop. It will cover the concepts underpinning optical transistors, the practical implementations and constraints, the most recent advances in the domain worldwide as well as the prospects of their use in the future. Meet with leading researchers in this field and hear about the research done by CUDOS postgraduate students.

How to apply: Send a brief CV (including course marks) and a paragraph on why you'd like to participate to Dr Boris Kuhlmeier: b.kuhlmeier@physics.usyd.edu.au

Application deadline: 1st June 2007. Only 30 places are available, so apply early!

