

## Silicon photonic devices

*Thursday 29 September 2011 09:00 (45 minutes)*

Silicon photonics has received a growing interest in the last years due to the possibility to realize strongly miniaturized photonic circuits using CMOS-compatible techniques and processes, and to the possible forthcoming integration of optical functions with electronics on the same chips. Passive and active devices have been demonstrated to distribute and manipulate light using a vast panel of physical effects. Among the required functionalities, significant breakthroughs have been recently demonstrated in the fields of light modulation and detection using group-four (germanium-rich) materials.

We will review recent progress in the related fields and give some possible future prospects.

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