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## **Workshop on current and prospective applications of nanoscale optics - NF015**

August Monday 27th 2018

Numerous applications rely on the control of light-matter interaction at nanoscale i.e. nanophotonics. After introducing nanophotonics, various innovative approaches addressing one of the key issue, large scale nanostructuring, will be presented together with related applications including sensing and analysis, security and personal identification device, smart windows and future telecommunications. Without being fully exhaustive, this workshop intends to give the audience a comprehensive overview of today's nanoscale optics starting from the physical concept to current and more prospective industrial applications.

18:45 - Gilles Léronde - UTT (co-chair): "Practical nanophotonics : introduction"

19:00 - Daniel Turover - SILSEF: "Nanoimprint for low cost fabrication"

19:20 - Patrice Baldeck - CNRS/ENS Lyon: "Two photon polymerization : towards large scale subwavelength high aspect ratio diffractive elements"

19:40 - Break

20:00 - Marc Chaigneau - Horiba: "amplified detection"

20:20 - Antony Saugey - SURYS: "Identification optical devices"

20:40 - Iryna Gozhyck - Saint Gobain Research: "Smart windows"

21:00 - Yong-Hoon Cho - KAIST (co-chair): "Towards room-temperature solid-state quantum light generation"

Concluding remarks