



## SEMINAR ANNOUNCEMENT

Wednesday, August 1, 2018 11 AM  
Sala Grande Palazzina B , via alla Cascata 56/C, Trento

### ***Li-Fi Demonstration***

**Keywords:** *Li-Fi, Arduino, MATLAB, Morse Alphabet, Rot13 cryptography*

When the telegraphy was invented, It was a breakthrough technology in terms of fast and secure communication. The Morse System used in the telegraphy can be considered among the first demonstrations of the binary system which is also the main working principle of modern computers. Further developments led to the radio frequency and wireless technologies to take the place of telegraphy and they are today's most popular communication technologies.

Li-Fi (Light Fidelity) is a new and promising technology which offers the use of Light instead of Radio Frequency. It opens the way to faster and more secure communication.

**In this seminar, *Leonardo Da Vinci Scientific Highschool Students, Giulia Bridi and Gianluca Nardon* will present the results of their summer internship on Li-Fi technology at *CNR – IFN Trento* with the support of *Alessandro Chiasera and Stefano Varas*, under supervision of *Osman Sayginer and Maurizio Ferrari*.**