

The production of *light* by matter –From light bulbs to monolithic blue LEDs

After a brief review of the different light sources developed since the introduction of electricity, the lecture will focus on the operating principle of light emitting diodes, the technological barriers to overcome to bring them into industrial operation and the perspective of integrated semiconductor light emitting devices in future electronics. Special interest will be given to blue emitters made of gallium nitride, which are the subject of the 2014 Nobel Prize in physics.

Classification de thématique: Interactions between light and matter