



## IL NOSTRO VIAGGIO PER SCOPRIRE ALCUNI DEI PREMI NOBEL

### HAVING A LOOK AT SOME OF THE NOBEL PRIZES



Are you interested in discovering some of the recent Nobel Prizes in Physics? You will find at the following links posters (in italian) and presentations to a few of the Prizes.

All the Nobel Prizes topics are listed on the official website of the Prize itself:

<https://www.nobelprize.org/prizes/physics/>

You can also find the Nobel lectures videos -

<https://www.nobelprize.org/prizes/lists/video-lectures-from-nobel-laureates-in-physics> and you can search for the Nobel lectures when video was not an option yet ....

**1964** - **Charles H. Townes, Nicolay Gennadiyevich and Aleksandr M. Prokhorov**  
for fundamental work in the field of quantum electronics which has led to the construction of oscillators and amplifiers based on the maser-laser principle

**2004** - **David J. Gross, David Politzer and Frank Wilczek**  
for the discovery of asymptotic freedom in the theory of strong interaction

**2005** – **Roy J. Glauber**  
for his contribution to the quantum theory of optical coherence

**2012** – **Serge Haroche and David J. Wineland**  
for ground-breaking experimental methods that enable measuring and manipulation of individual quantum systems

**2013** – **Francois Englert and Peter W. Higgs**  
for the theoretical discovery of a mechanism that contributes to our understanding of the origin of mass of subatomic particles, and which recently was confirmed through the



discovery of the predicted fundamental particle, by the ATLAS and CMS experiments at CERN's Large Hadron Collider

**2014 – Isamu Akasaki, Hiroshi Amano and Shuji Nakamura**

for the invention of efficient blue light-emitting diodes which has enabled bright and energy-saving white light sources

**2016 – David J. Thouless, F. Duncan M. Haldane and Michael Kosterlitz**

for theoretical discoveries of topological phase transitions and topological phases of matter

**2018 – Arthur Ashkin** for the optical tweezers and their application to biological systems

**Gérard Mourou and Donna Strickland** for their method of generating high-intensity, ultra-short optical pulses