

Lectures

- [The Big Bang Theory](#) (yes, the TV series but with real physics - in Azores, Portugal)
- Our research on [Big Bang & Tsallis Statistics](#) featured on Chinese News [CCTV](#)
- **Physics of Unstable Nuclei** (Lectures at GSI/Darmstadt 1993/1994)
 - [Production of Radioactive Beams](#)
 - [Nuclear Sizes](#)
 - [Momentum Distributions](#)
 - [Borromean Nuclei](#)
 - [High Energy Scattering](#)
 - [Coulomb Excitation](#)
 - [Elastic Inelastic Scattering](#)
 - [Pion Production](#)
 - [Tests of Fundamental Interactions](#)
 - [Nuclear Astrophysics](#)
 - [Fusion Reactions](#)
- [Nuclear Physics](#) Notes (in Portuguese) Lectures by C.A. Bertulani at UFRJ/Rio de Janeiro, 1988-1990 & 1998.
- [Mechanics, Thermodynamics](#)
- [Electromagnetism](#)
- [Astrophysics](#)
- [Musical Acoustics](#)
- Lectures presented at the Galileo Galilei Institute for Theoretical Physics, Florence, Italy, March 3-7, 2014.
 - [EM excitation](#)
 - [Direct Reactions](#)
 - [Reactions in the Continuum](#)
 - [Fusion & Transfer](#)
- [Indirect Methods in Nuclear astrophysics](#)
Presented at the ChETEC-INFRA - Schools on Nuclear Astrophysics Questions (SNAQs), Europe, May 12, 2021.
- [Tunneling, Diffusion and Dissociation of Feshbach Molecules in Optical Lattices](#)
Presented at the International Workshop on Critical Stability, October 12-17, 2014, Santos, Brazil.
- [Photon-photon and photonuclear collisions at CERN](#)
Presented at the International Workshop on photon-induced collisions at the LHC, June 2-4, 2014, CERN, Geneva, Switzerland.
- [Effective Field Theory for Halo Nuclei](#)
Presented at the International Workshop "Universality in Few-Body Systems", INT/UW, Seattle, March 10, 2014.
- [Searching for Pigmy Resonances](#), Talk at the Carpathian Summer School of Physics 2016, June 26 – July 9, 2016 Sinaia, Romania.
- [The quest for the origins of the elements: \[Lec 1\]\(#\), \[Lec 2\]\(#\), \[Lec 3\]\(#\), \[Lec4\]\(#\)](#)
Lectures presented at the RISP/IBS facility, The 1st RISP Intensive Program on "Rare Isotope Physics", Daejeon, Korea, July 12-22, 2016.
- [Nuclear Matter Incompressibility and Giant Monopole Resonances](#)
Presented at the 27th Texas Symposium on Relativistic Astrophysics, Dallas, Texas, December 11th, 2013.

- [Fusion11 - Summary talk](#)
A summary account of the conference "Fusion11", held in Saint Malo, France, May 2-6, 2011.
- [Theory and Applications of Coulomb Excitation](#)
Presented at the 8th CNS-EFES Summer School, Center for Nuclear Study (CNS), the University of Tokyo, and RIKEN, Wako Campus, August 26 - September 1, 2009.
- [The Coulomb Dissociation method](#)
Presented at the 5th European School on Experimental Nuclear Astrophysics, Santa Tecla, Sicily, Italy, September 21-26, 2009.