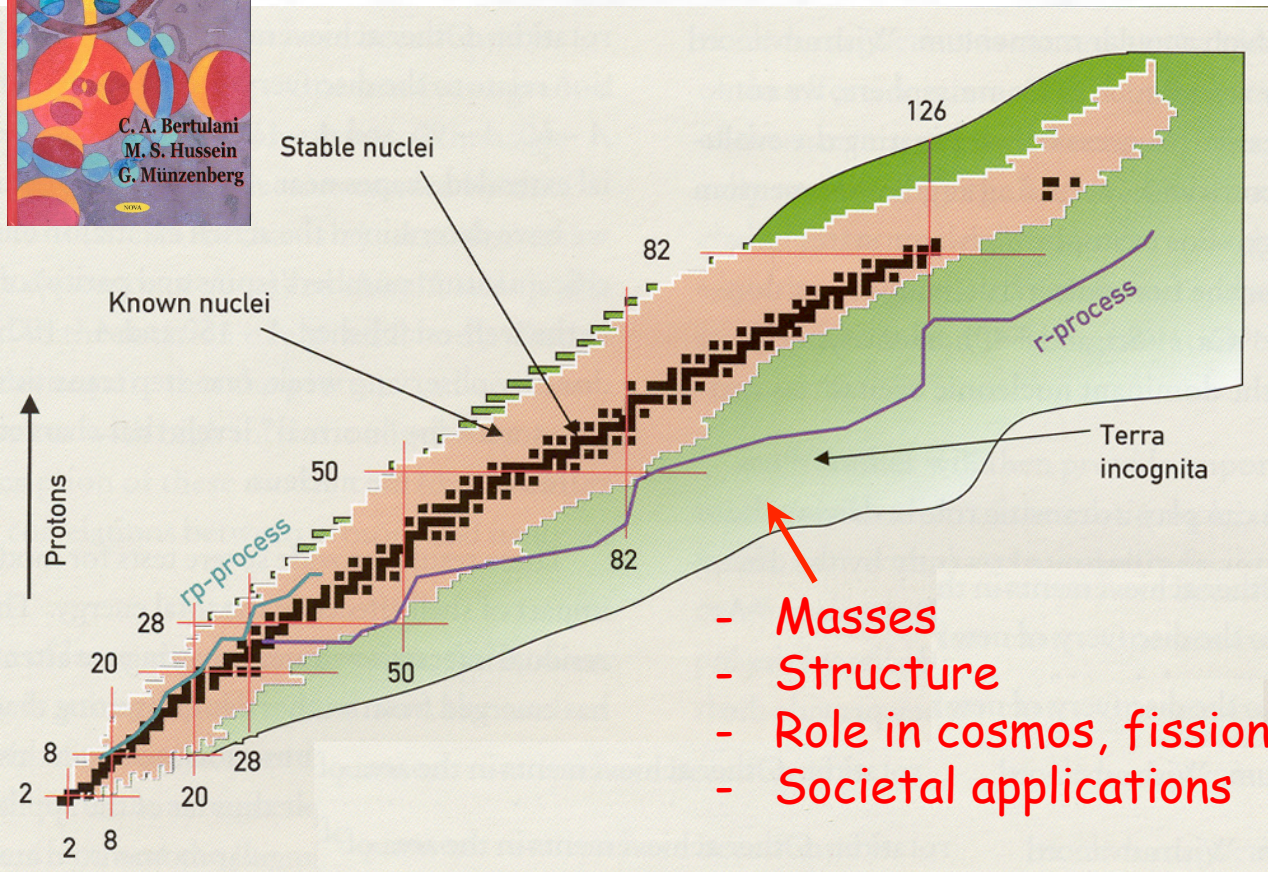


Reactions with Rare Nuclear Isotopes

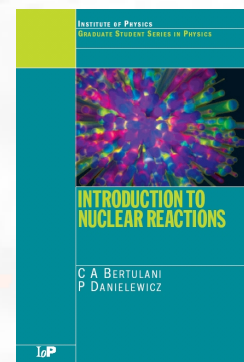
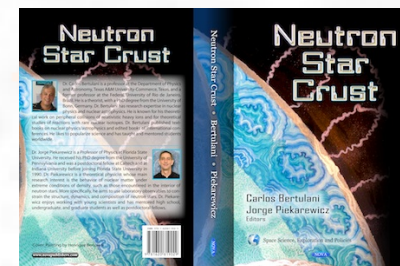
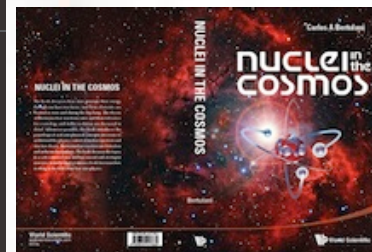
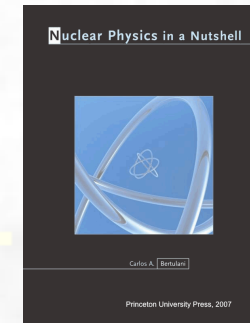


In US DOE will invest 1 Bi US\$ on a Facility for Rare Isotope Beams. We are part of this investment.



Together:

- ~ 500 publications
- 7 books -- 4 textbooks
- Organize numerous Int. conferences every year
- Current funded by NSF, DOE, NASA, etc.



- Former postdocs now professors in other universities
- Former students in top research universities or well employed

Alumni (worked with C. Bertulani)

- **Arturo Samana** (postdoc in 2009) → Associate Professor in Ilheus, Brazil
- **Wenhui Long** → Professor in Lanzhou, China
- **Hongliang Liu** → Assistant Professor in Xi'An University, China
- **Mesut Karakoc** → Assistant Professor in Akdeniz University, Turkey
- **3 MS students + 2 undergrads** now enrolled in major PhD programs in US
- **2 MS students** have jobs in industry (defense), and teaching

Student involvement example (worked with C. Bertulani)

1. *Big bang nucleosynthesis with a non-Maxwellian distribution*
C.A. Bertulani, **J. Fuqua** and M.S. Hussein, *Astrophys. Journal* 167, 67 (2013).
2. *Microscopic in-medium nucleon-nucleon cross sections*
B. Chen, F. Sammarruca and C.A. Bertulani, *Phs. Rev. C* 87, 054616 (2013).
3. *Dark/Visible Parallel Universes and Big Bang Nucleosynthesis*, C.A. Bertulani, T. Frederico, **J. Fuqua**, M.S. Hussein, O. Oliveira, W. de Paula, *AIP* 2013.
4. *Production of exotic atoms at the CERN Large Hadron Collider*
C.A. Bertulani and **M. Ellermann**, *Phys. Rev. C* 81, 044910 (2010).
5. *Radiative capture of protons and neutrons at astrophysical energies* **Junting Huang**, C.A. Bertulani and V. Guimaraes, *ADNDT* 96, 824 (2010).
6. *Non-inertial effects in fusion reactions of astrophysical interest*
C.A. Bertulani, **Junting Huang** and P. Krastev, *Mod. Phys. Lett. A* 24, 1109 (2009).

Our goal is not to build a "**Stamp Collection**", but to provide you with education and knowhow transfer and to prepare you for a successful career.