Tam Chi Kin | Curriculum Vitae

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Year 1 graduate student completing PhD in physics at Western Michigan University (Date of start: 08-28-2019)

Employment

- **RIKEN Nishina Center for Accelerator-Based Science** — **Tokyo, Japan**
  Internship — *July 2017–August 2017*
  Research on in-beam 1MeV 12C(p,)13N gamma spectrometry
- **Ho Koon nature education and astronomy center** — **Hong Kong**
  Internship — *June 2017–July 2017*
  Teaching astronomy and physics for primary and secondary students
- **The University of Hong Kong** — **Hong Kong**
  Student Research Assistant — *May 2019–August 2019*
  Research on the ground state properties of even-even nuclei Sm, Gd and Dy (Z=62-66) in the 'deformed relativistic Hatree-Bogoliubov theory in continuum'.

Education

Academic Qualifications

- **The University of Hong Kong** — **Hong Kong**
  BSc (Hons) Physics, Second Honour (1st class) — *2015–2019*
- **Queen Elizabeth School**
  Hong Kong Diploma of Secondary Education — *2009–2015*

Projects

- **Final Year Project (Ongoing):** *'Ground state properties of even-even nuclei in the deformed relativistic Hartree- Bogoliubov theory in continuum'*
  Computer calculation of total binding energy, rms proton, neutron and charge radius, proton and neutron quadruple deformation for the 5 even isotopic chain (Z=62-70)
- **Summer project:** *'In-beam 1MeV 12C(p,γ)13N gamma spectrometry in thick target'*
  Deduce the cross section of 12C(p,γ)13N from the measurement of counts of emitted γ at $E_\gamma = 3502$ keV.

Presentations

- **Institute for Basic Science** — **Daejeon, Korea**
  Workshop — *5-7 December 2018*
  Discussion on the collabarative works on nulcear mass table project in deformed relativistic Hartree-Bogoliubov theory with continuum

Technical and Personal skills

- **Programming Languages:** Proficient in: Python,TeX, shell script

- **Education Skills:** Completed course EDUC7154 'Teaching and learning of Physics' organized by HKU Postgraduate Diploma in Education program

Research Interest

- **Nuclear astrophysics:** (experimental) processes and model of nucleosynthesis, structure of exotic nuclei
- **Fundamental symmetries:** (experimental) quark generation, transition of quark states when weakly interacted, parity violation