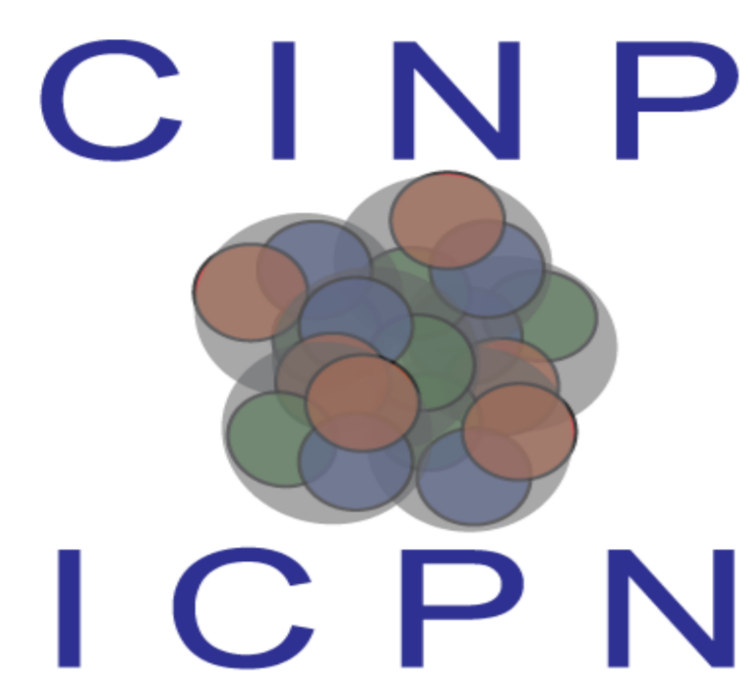
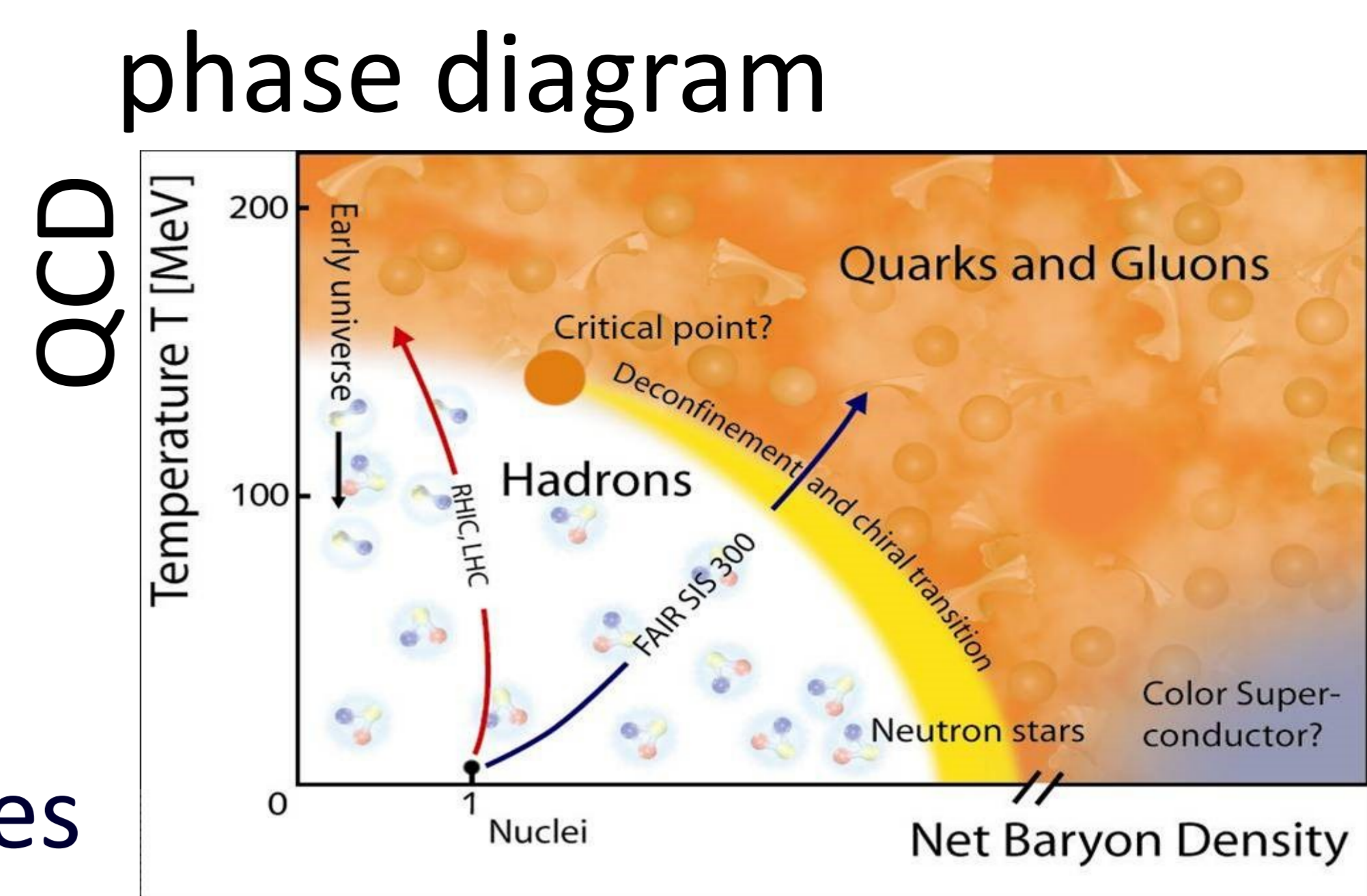


Opportunities for graduate work in nuclear physics

- Construct Detectors
- Analyze Experimental Data
- Develop Simulation Software
- Attend Workshops/Conferences
- Develop new theoretical models
- Participate In Experimental Data Collection
- Do Experiments at National and International Laboratories
- Gain Valuable Experience with Digital and Analog Electronics



Canadian Institute of Nuclear Physics
Institute Canadien de Physique Nucléaire

TRIUMF

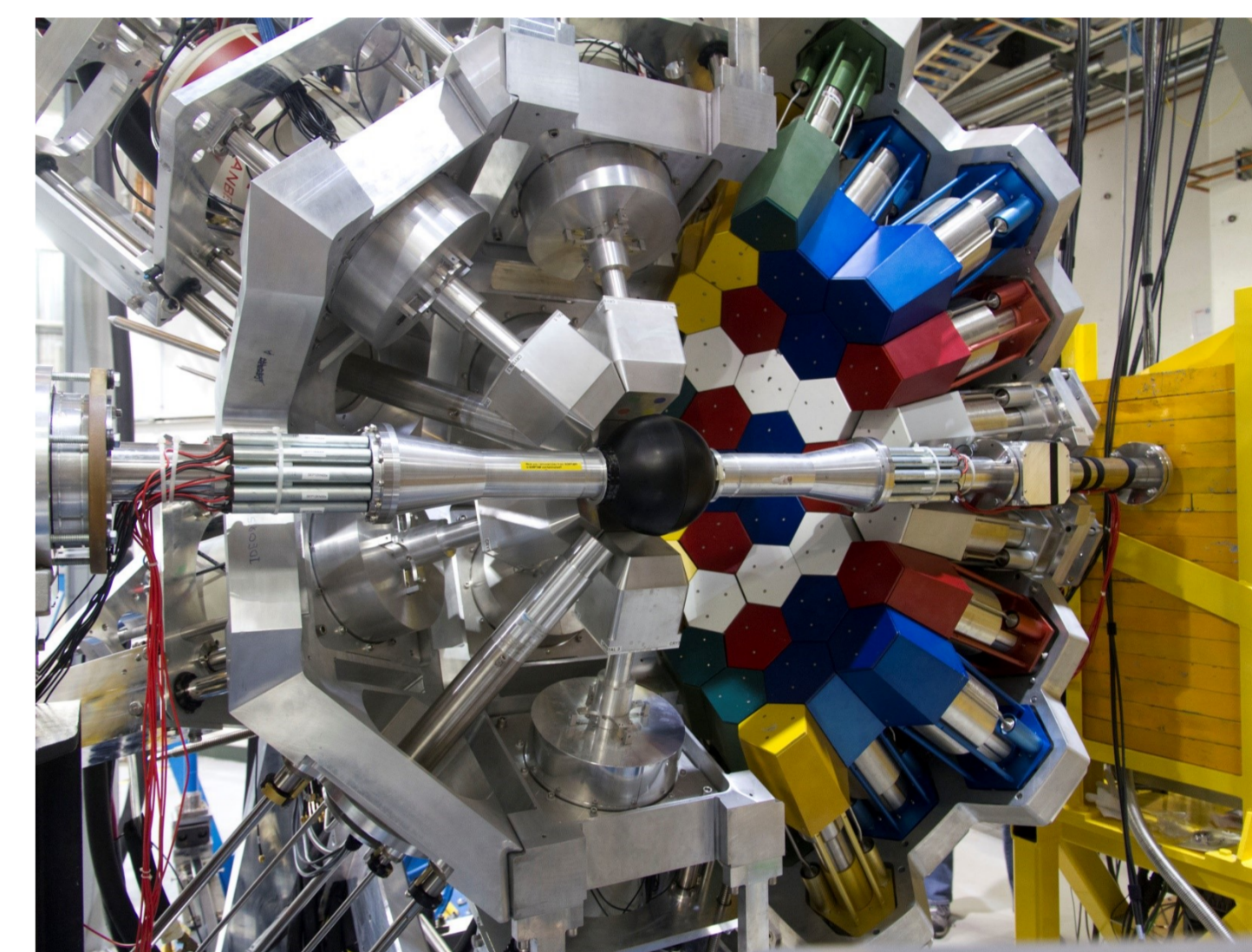
The ISAC facility at TRIUMF is a world leader in the emerging technology of radioactive ion beams.

Examples of exciting study include:

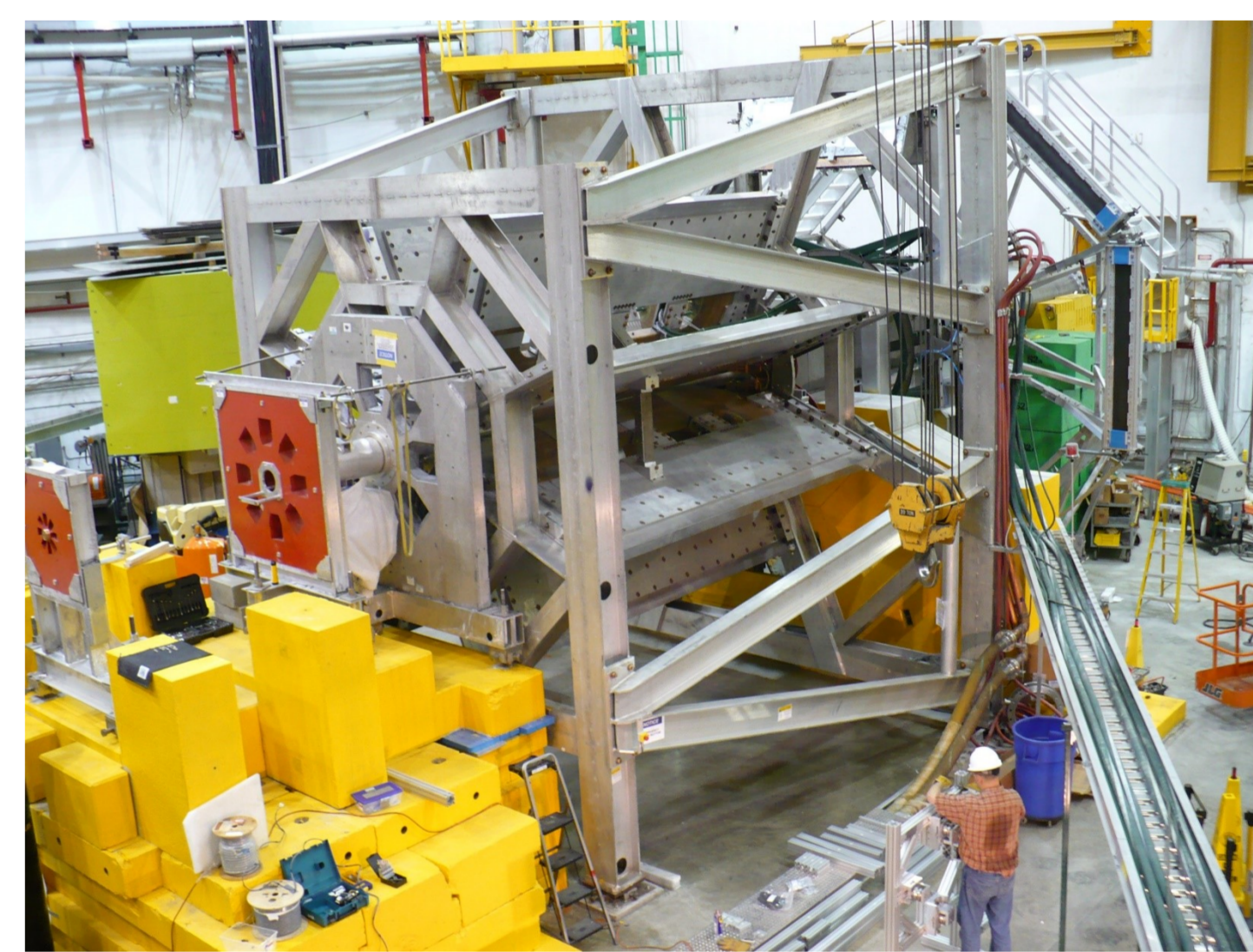
- Radioactive isotope trapping (TITAN and TRINAT)
- Nuclear Astrophysics studies with DRAGON and EMMA
- The world's most intense source of ultra-cold neutrons (UCN) will allow for a searches of new physics beyond the Standard Model
- ARIEL will permit high-precision studies of nuclear structure



TRIUMF Meson Hall



β decay with GRIFIN and DESCANT detectors



Qweak, during installation



Annika Lennarz, at BGO array

CINP Institutions

- | | |
|--------------------------|------------------------|
| Saint Mary's University | University of Manitoba |
| Mount Allison University | University of Winnipeg |
| McGill University | University of Regina |
| University of Guelph | TRIUMF |

Nuclear Theory

Explore the structure and behavior of strongly interacting matter, help form a quantitative description of nuclei from the properties of Quantum Chromodynamics.

- Lattice QCD
- Relativistic heavy ion theory
- Calculations of nuclear structure
- Chiral Perturbation Theory

Jefferson Lab

The world's leading electron accelerator facility, capable of providing a highly stable, highly polarized electron beam. Now with a maximum beam energy of 12 GeV, Jefferson Lab will make profound contributions to the study of nuclear matter, including:

- Studies of gluonic excitation and quark confinement
- Nuclear and nucleon structure measurements
- Exclusive scattering cross-section measurements
- Tests of the Standard Model of Electroweak interactions