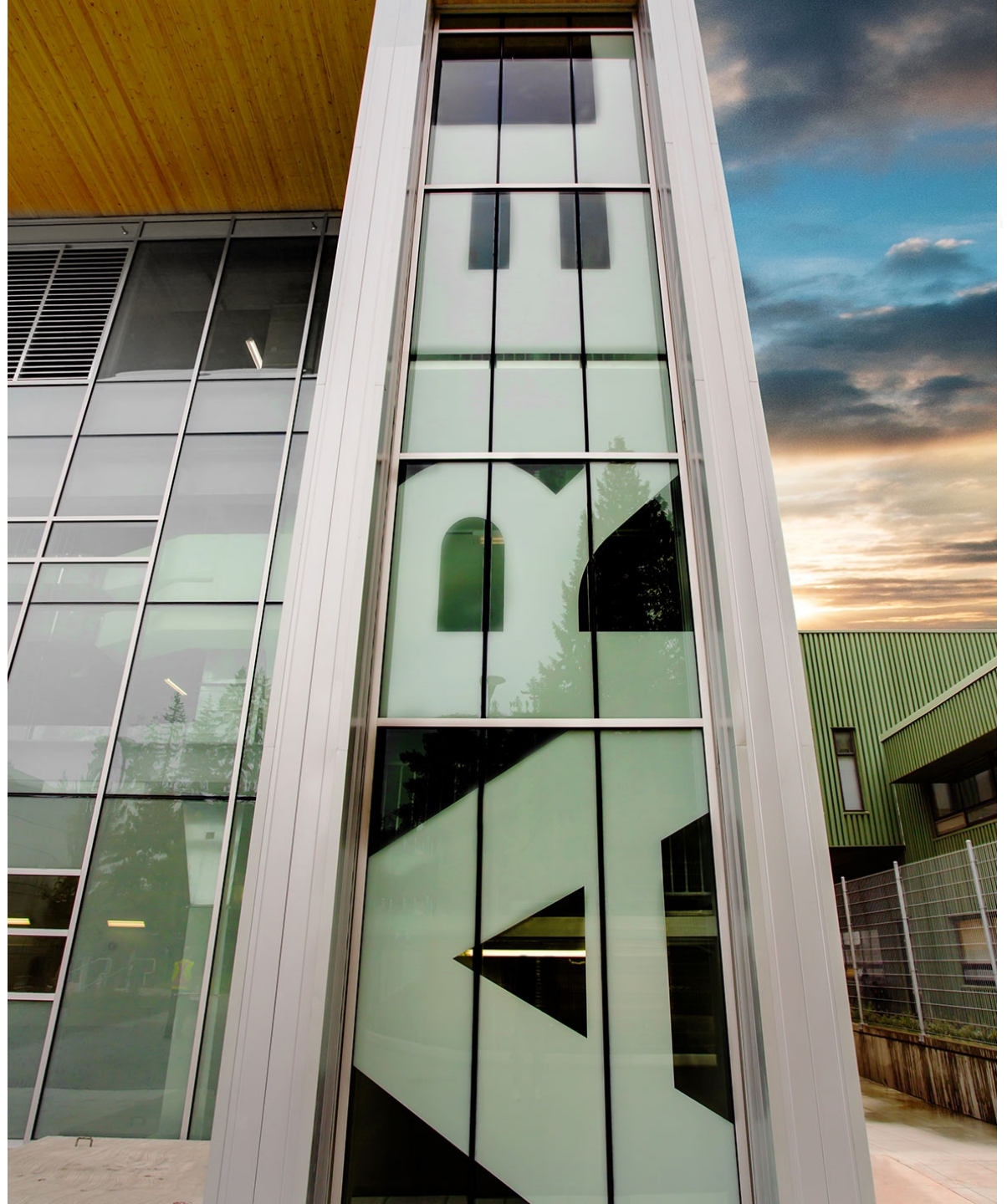


Status of TRIUMF

Reiner Kruecken

Deputy Director, Research





ISAC

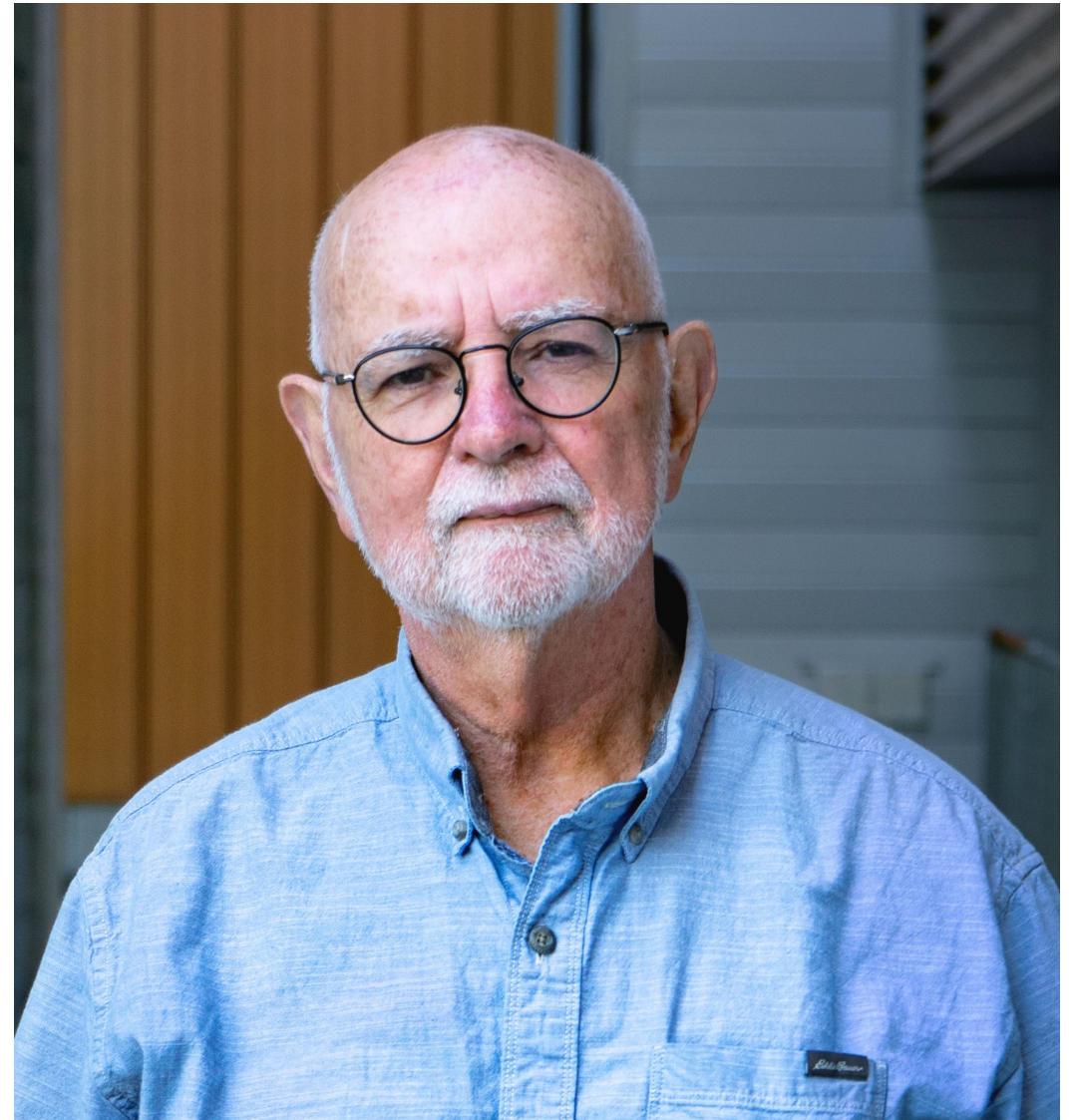
20 anniversary
anniversaire



BWXT

40 anniversary
anniversaire

Royal Society



Tom Ruth, FRSC

GOALS: 2019-2020

Science and Technology

- Operate Safely and Effectively
- Construct ARIEL and IAMI
- Perform Breakthrough Science
- Renew Physical Infrastructure

People and Skills

- Live our Values
- Attract and Develop Talent
- Strengthen Internal Communications
- Enhance Academic Program

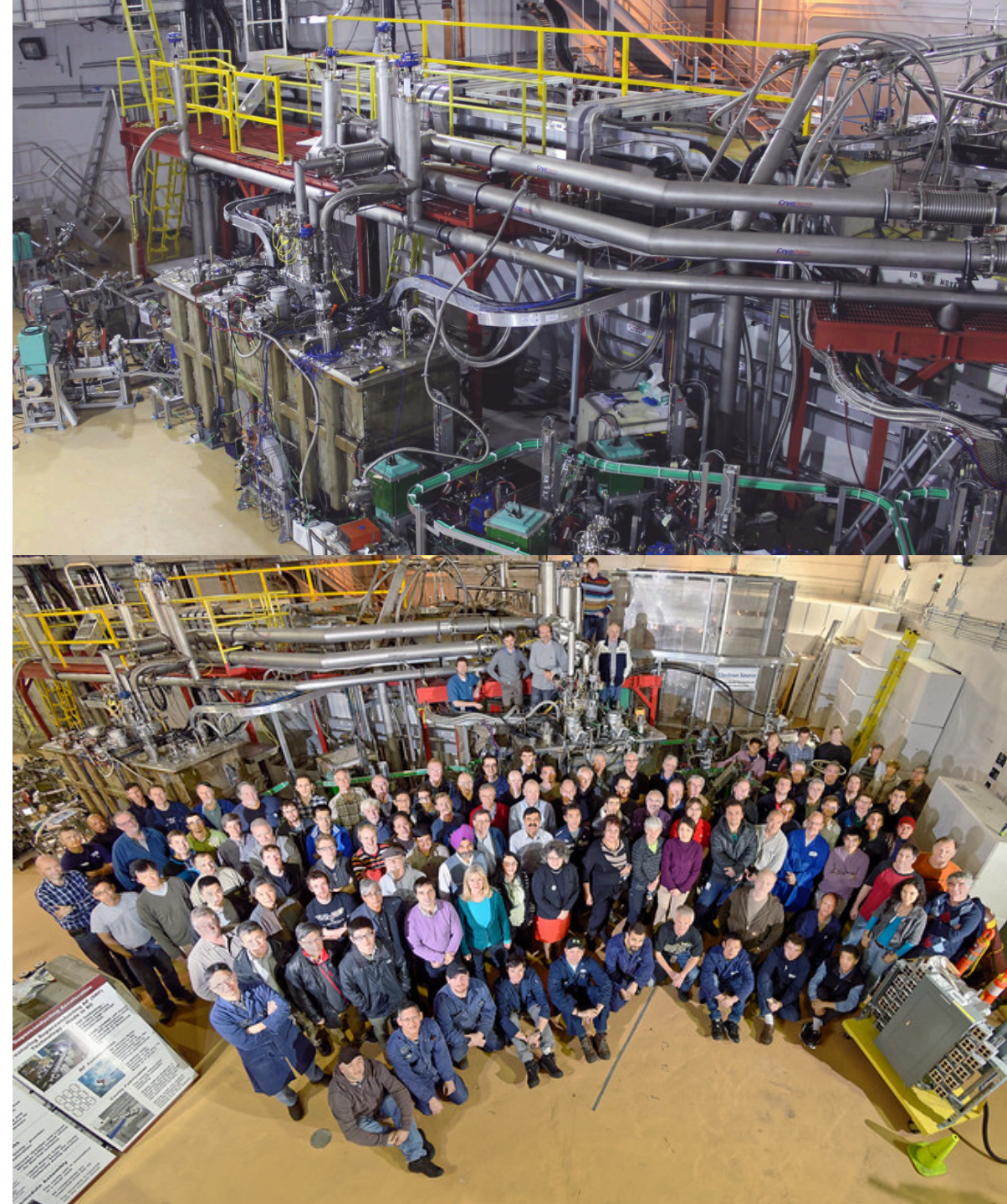
Innovation and Collaboration

- Reform Governance Structure
- Support our Community
- Build IAMI Program
- Close Commercial Deals

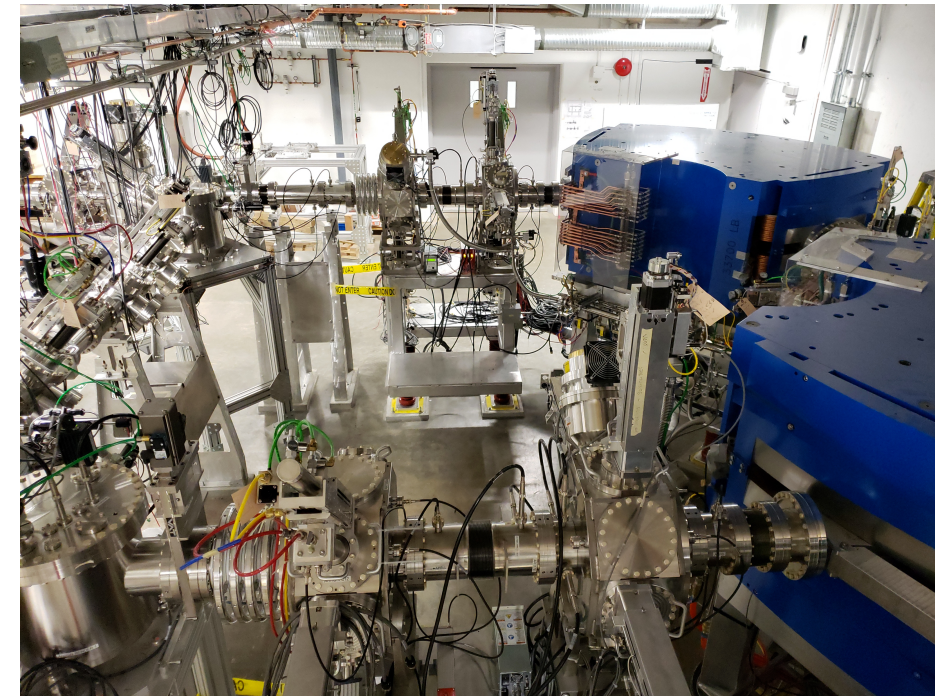
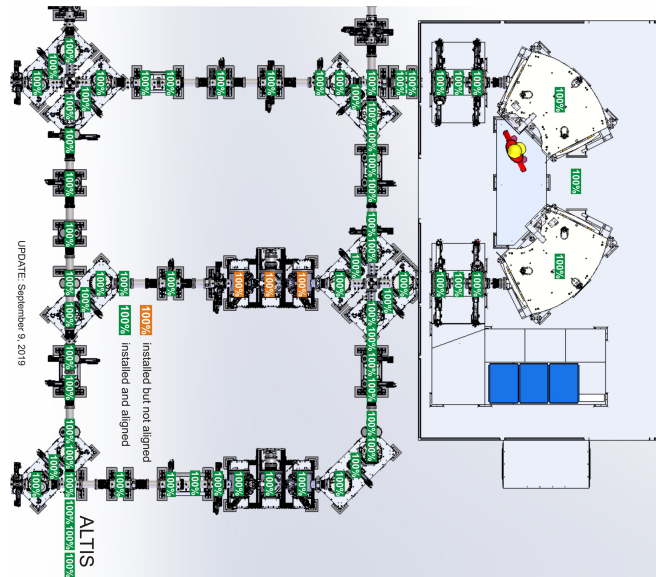
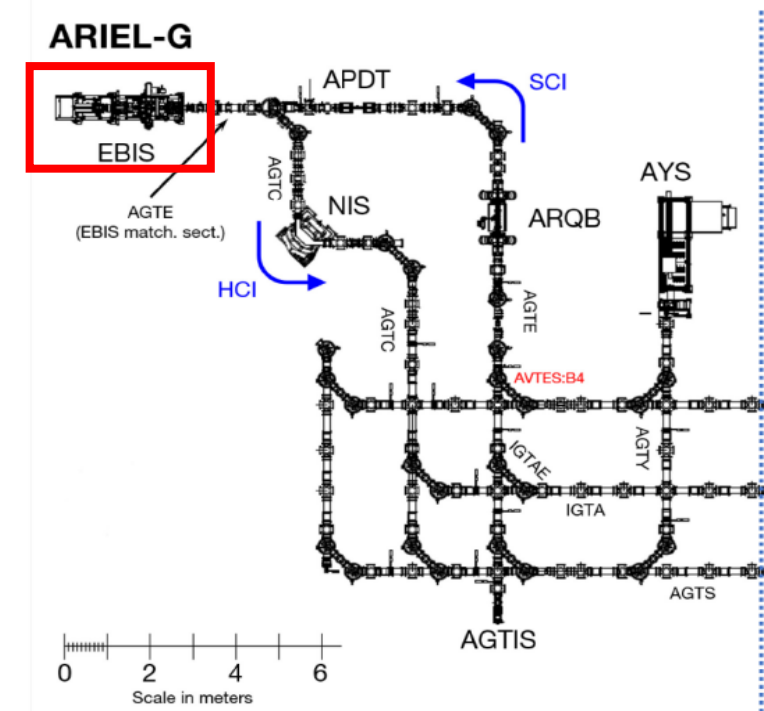
Construct ARIEL

July 2019 Milestone:

e-Linac reaches **30MeV** using the
Injector Cryomodule (1 cavity)
and the Accelerator Cryomodule
(2 cavities)



CANREB commissioning has begun!



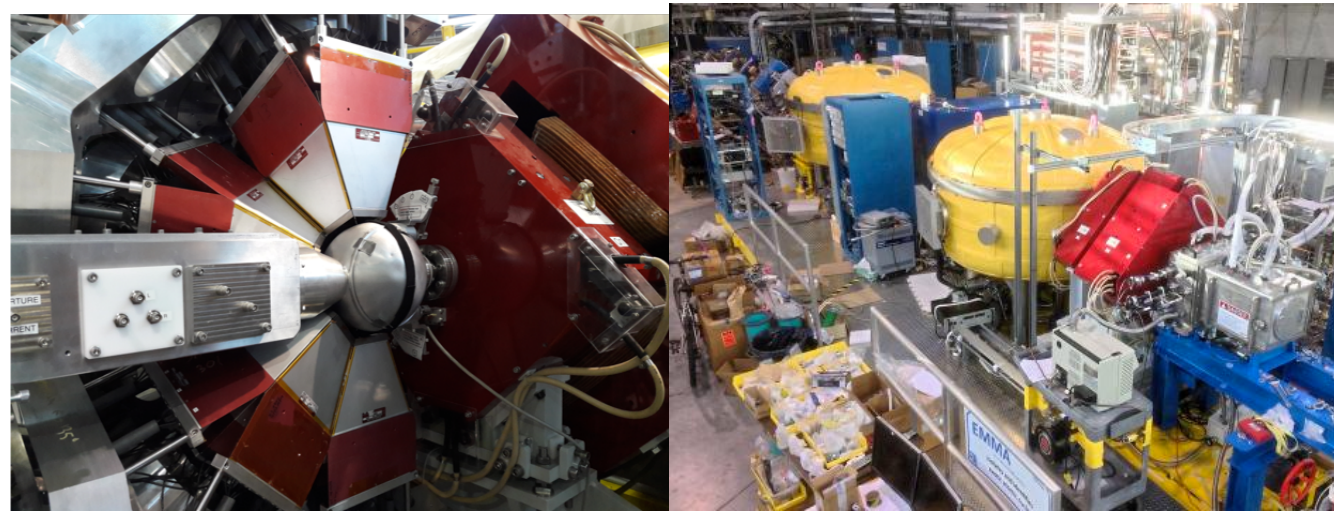
Construct IAMI

Ground was
broken

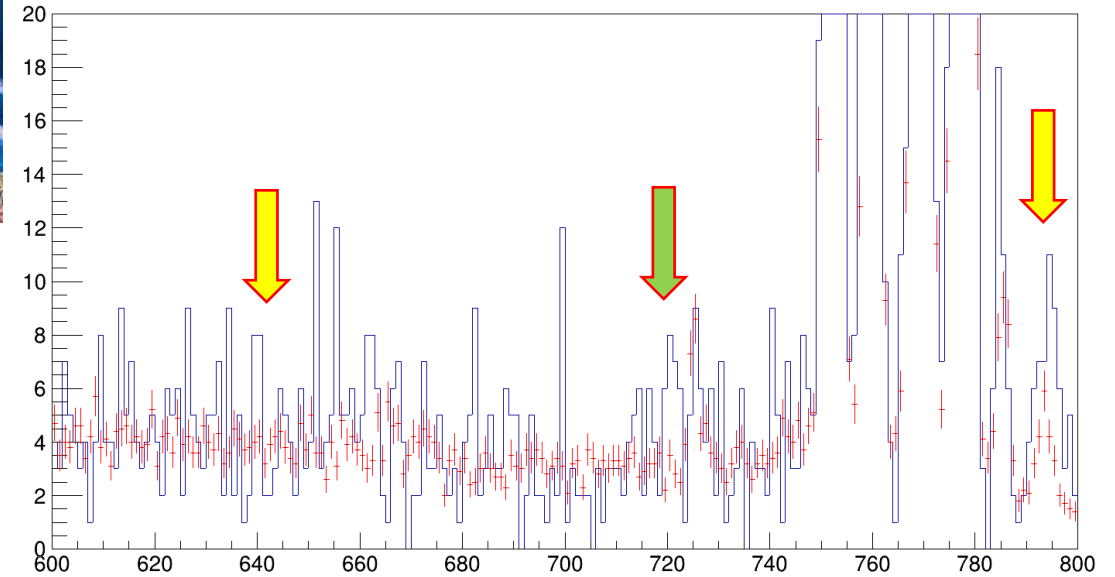
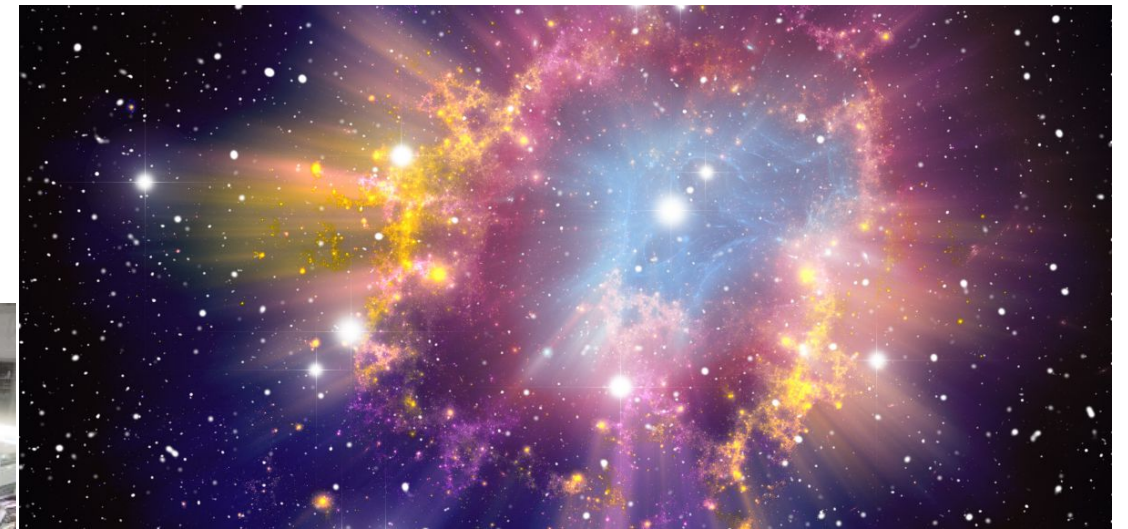


EMMA+TIGRESS

9



First measurement of proton capture by radioactive isotope (^{83}Rb) at supernova energies. Opens new frontier for science!



Gamma energies measured with TIGRESS

Particle Physics

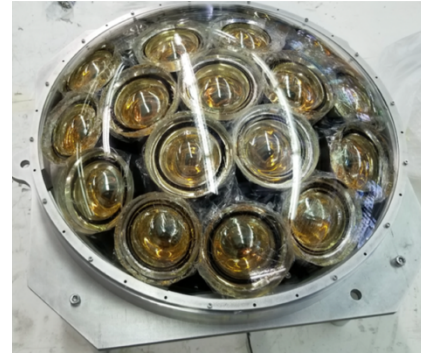
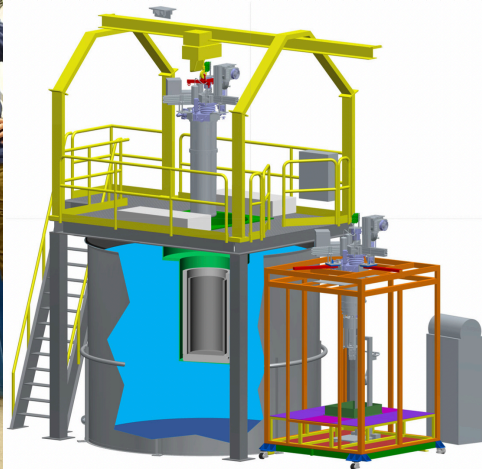
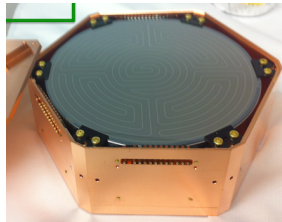


ATLAS ITK Clean Room

APLHA-g



SuperCDMS



Hyper-Kamiokande



UCN



FEDERAL BUDGET 2019

2014: \$222 M

2019: \$292 M

Secures our future: +32%

- One year early
- Consolidates recent gains
- But...

Conditions

\$25M must be devoted to
renewing our infrastructure

Consequences

Rebalancing required

- Invest in Infrastructure
- Invest in People
- Stretch out ARIEL

Consistent with FYP

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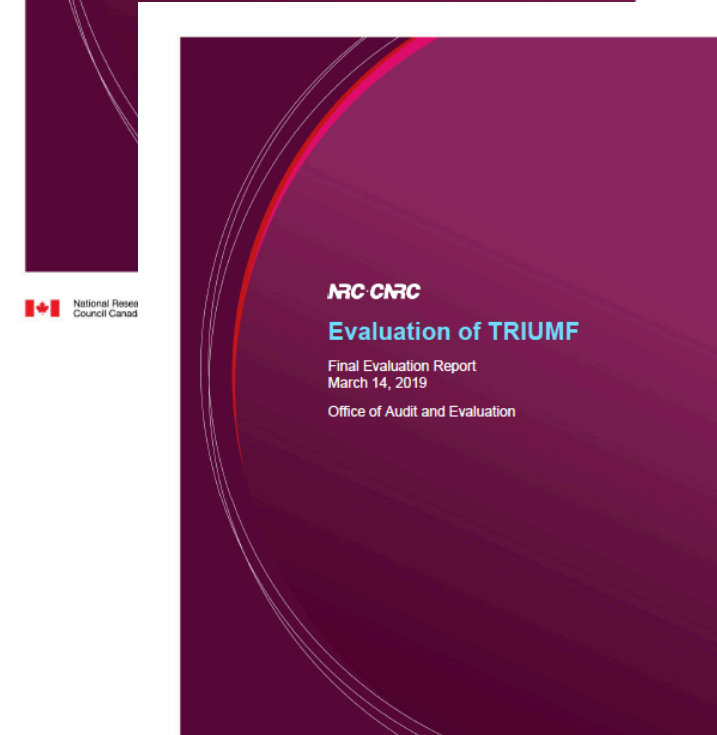
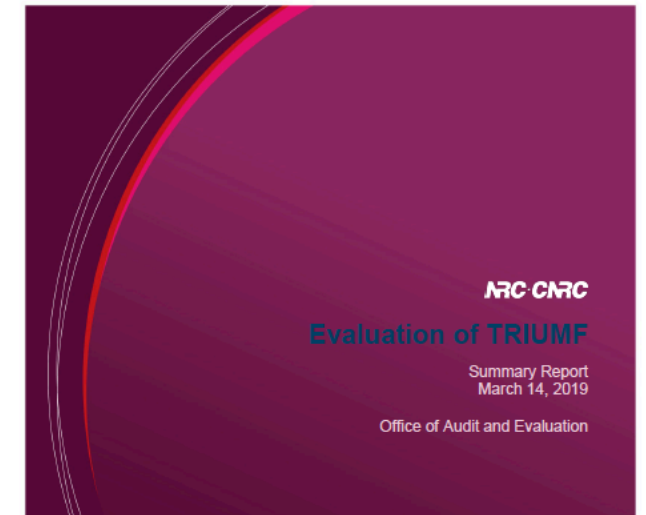
- Science and Technology
- People and Skills
- Innovation and Collaboration



Consistent with IPR

Recommendations

- Retain scientific diversity
- Increase visibility, nationally and internationally
- Diversify sources of support
- Seek state-of-the-art facilities and processes
- Strengthen internal communications
- Develop 20-year vision



 National Research
Council Canada

 National Research Council Canada
Conseil national de recherches Canada

Canada 

<https://nrc.canada.ca/en/corporate/planning-reporting/summary-report-evaluation-triumf>

<https://nrc.canada.ca/en/corporate/planning-reporting/evaluation-triumf>

ARIEL

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- 2020 CANREB proton beam
- 2023 ARIEL electron beam
- 2026 ARIEL proton beam

A steady stream of new physics!

People

- Offer competitive wages and benefits
- Develop our talent
- Make TRIUMF a great place to work

Infrastructure

- Increase reliability
- Improve IT systems
- Enhance physical space

Bottom Line

By the end of the next Five-Year Plan, we will be well along the way towards building the “new” TRIUMF that will carry out world-class research far into the 21st century

Thank you!

