TRIUMF's ISAC Vicennial Anniversary



Session 1

Gordon Ball - Excellent overview of the early development of ISAC

Pierre Briccault - Told us about all the challenges of development of the targets –
especially to convince the safety authorises that the isotopes had to escape
– i.e. an open source

Bob Laxdal The development of new accelerator technologies. RFQ, DTL, SCL

Jens Lassen Early use lasers to greatly improve the selectivity of the ions

- Volume of new developments needed
- No text book reference
- Short time scale
- Fortunate that there was a legacy from KAON

*Young generation should be inspired by this tremendous effort by all the people involved. *We have a responsibility to exploit the legacy of all the engineers, scientists and technicians involved.



Eric Vogt

One of the pioneers to build the Cyclotron

First proton beam 1968

In 1985 proposed to use the proton beam as the driver for an ISAC facility

John D'Auria



Alan Astbury

Secured funding In 1995 to fund ISAC

1999 first ISAC beam

1987 TISOL

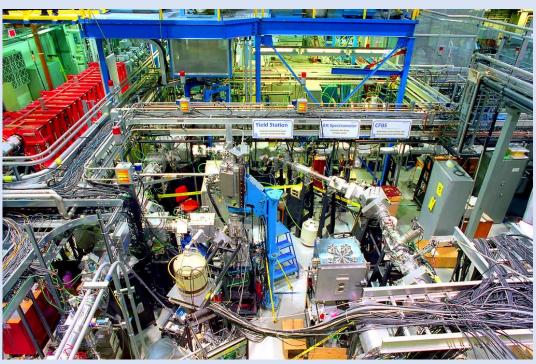
Challenges for ISAC science:

Production of accelerated RIB's

 \rightarrow Low beam intensity

Development of Highly fragmented ~ 4π detectors

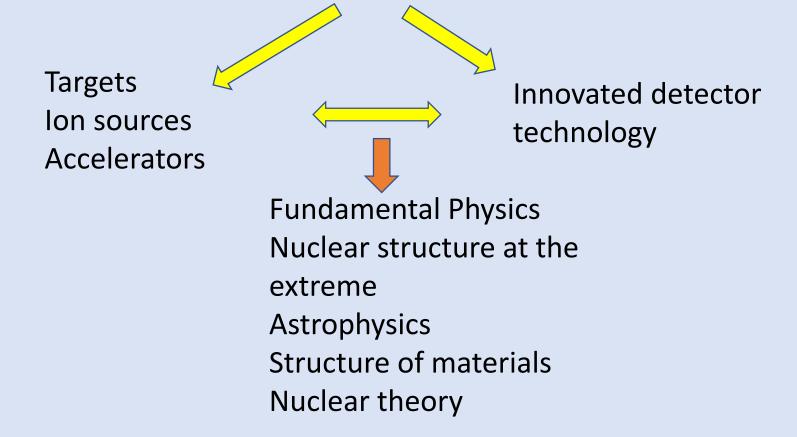
Louvain-la-Neuve in mid 1990's first faced these challenges



~ 25 years latter:-



This symposium highlights the achievements at TRIUMF from the interaction between these two activity areas:



*RIB production is a complex chain of operations, 7 major, from p-source to ISACII accelerator *Major Challenge – all stages need continuous maintenance – manpower issues *Reliability index -> is important to attract the best international scientists.

The future



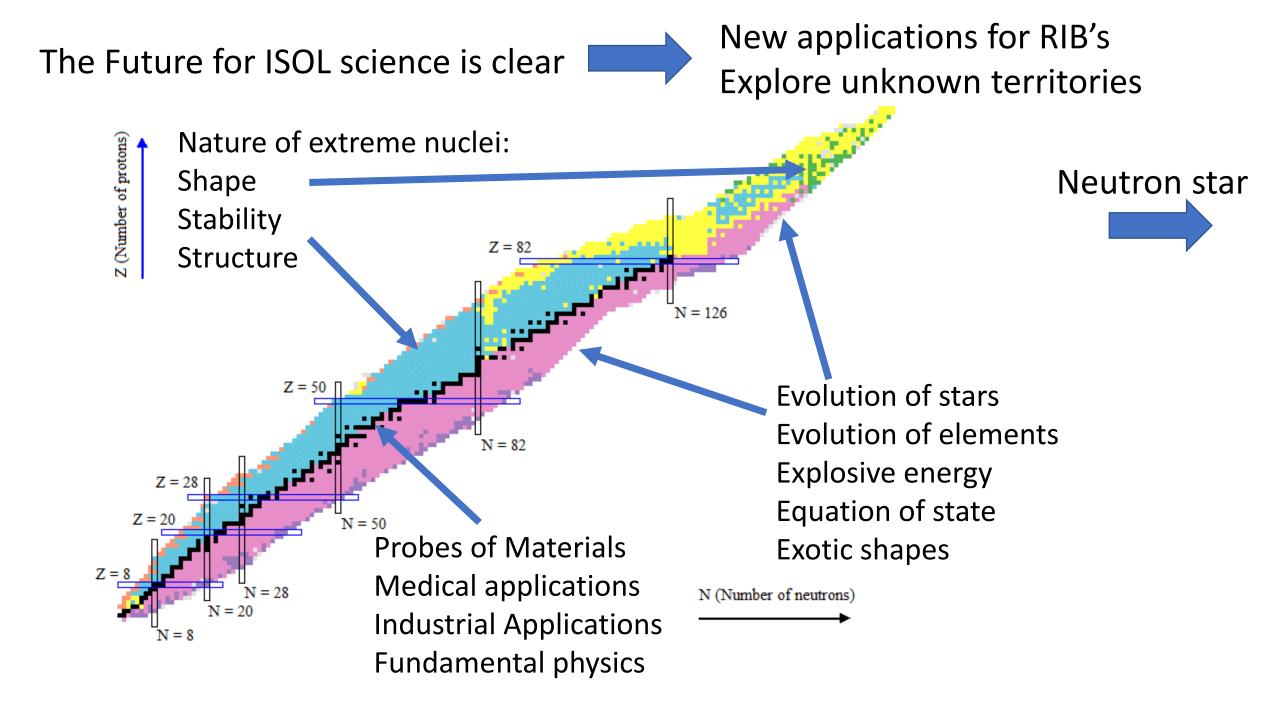
Every year ~ 600 young scientists meet 30 -40 Nobel Laureates 2019 -Physics

Martinus J. G. Veltman

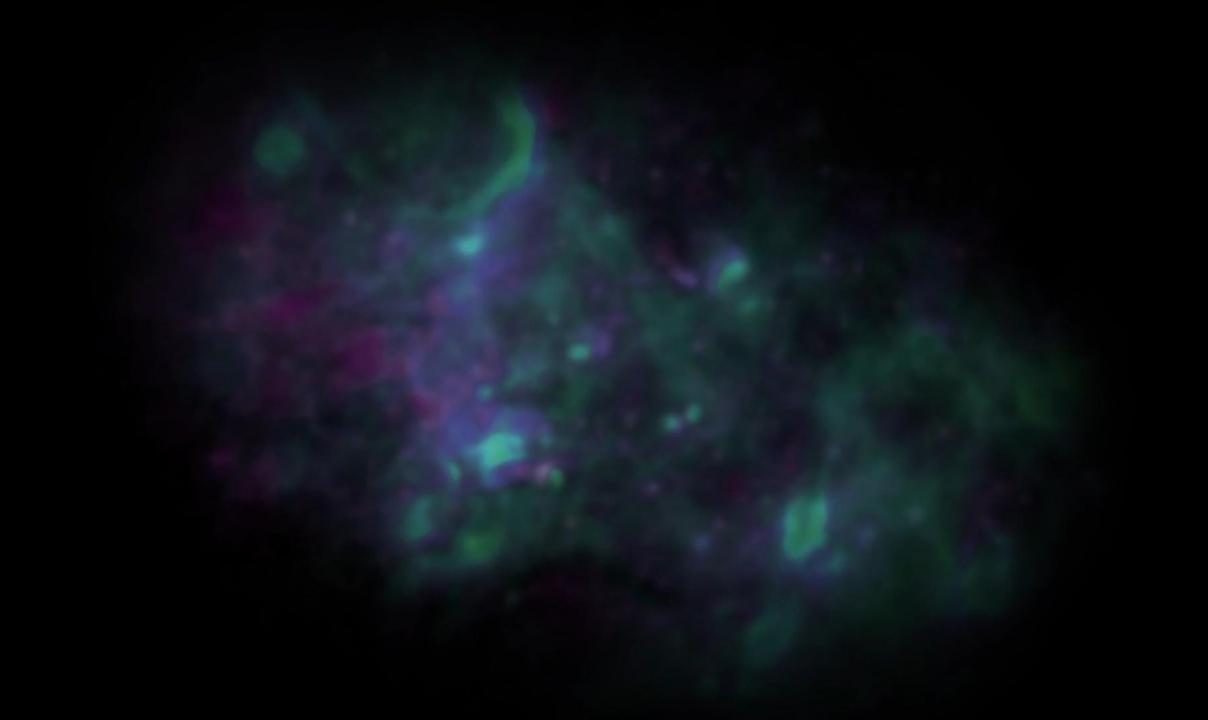
The Future of Particle Physics

A person asked : 'What is your opinion on the future of particle physics?'

Prof' Veltman answered : 'There really isn't any – we don't really know what to do'.









This symposium has shown how much the ISAC field has moved on in 20 years, and that it has a bright future ahead.

Thanks to all the speakers, and organisers.