CFI Proposal: Detector Support for Frontier Technology
Targetting upcoming CFI round

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TRIUMF
- Make a CFI proposal for specialised equipment for advanced detectors
- Aim to set up “centres of excellence”
  - Shared/open facilities between different institutes and experiments
  - One high-class facility instead of a few “making do”
  - Both for R&D for relevant detectors, and for building them
- Often, a single experiment cannot afford or justify desired tools
- ...But for general purpose (though advanced) tools, many experiments can collectively justify it
- Modernisation
  - Replace existing aging equipment
  - New tools to enable modern detector possibilities
- Synergy possible with MRS proposal(s) for staff to operate tools
Includes proposals “Detector Support for Forefront Technologies” and “Infrastructure for Solid State Development” and others related to specific experiments
- For new equipment at TRIUMF to support experiments and universities
- Well received by PPAC
- small “PPAC ... strongly endorses a reinforced role for TRIUMF in detector R&D... support experimental needs across a range of disciplines, both at TRIUMF and in the Canadian community ... We recommend that efforts be made, in coordination with NSERC MRS-funded university facilities ... to seek external funding for a distributed centre of excellence with TRIUMF as the hub”
- Similar support in CERN Strategy and EU funding (ATTRACT)
- Ball park 1 - 3 M at TRIUMF, plus investment at other Canadian institutes
- Needs funding, apply for CFI with other institutes
- Note TRIUMF is not CFI eligible...need outside PI
Eligibility for CFI?

- In particle physics, we tend to apply for CFI for a particular experiment.
- This one is for specialist equipment for use on many experiments, spread out at several institutes.
- This is OK with CFI ... outside particle physics it is common (Fabrice Retiere looked).
Possibility 1) Make a larger Pan-Canada proposal. Bigger request, broad supporting institutes
　Needs an enthusiastic PI to champion it, with time available to dedicate to it
Possibility 2) Make a smaller West Coast effort
　UBC, SFU, UVic
　Easier for TRIUMF to communicate
　Easier (?) to find a PI
　Should take best route, not “easiest”
Concrete steps

- (i) Expressions of institute interest to join such a proposal (non committing) - feedback here and send me an e-mail
- (ii) Ideas what you need to support your institute and experiments
- (iii) Feedback: Canada-wide or West Coast?
- (iv) Volunteer for PI, especially if Canada-wide