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

Nigel Hessey

℀TRIUMF General Idea

- ▶ Make a CFI proposal for specialised equipment for advanced detctors
- ► 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

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- ▶ 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

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- ▶ 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)

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- ▶ 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"

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- (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

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