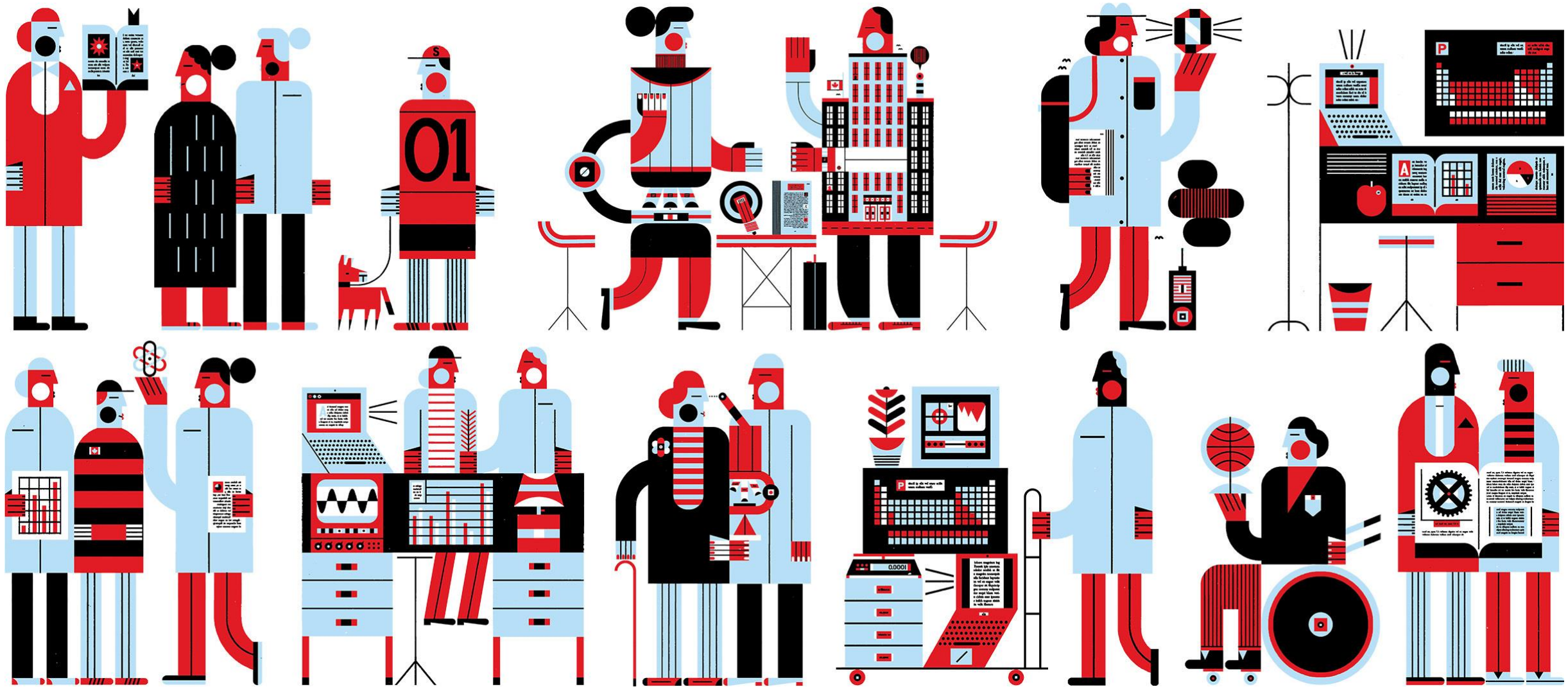
NSERC
CRSNG

Breakthrough answers
to timeless questions

Des réponses innovantes
à de grandes questions



Natural Sciences and Engineering
Research Council of Canada

Conseil de recherches en sciences
naturelles et en génie du Canada

Canada

NSERC CRSNG

Natural Sciences and Engineering Research Council of Canada

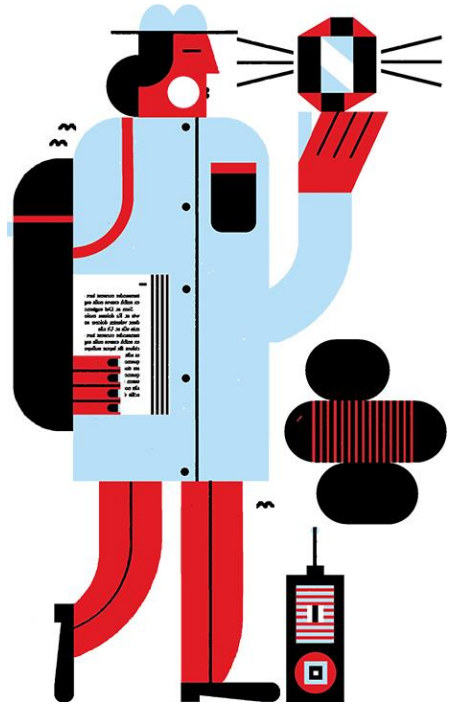
Presentation for 3rd International Summit on the Future of Double Beta Decay

Anne-Marie Thompson

Vice-President (acting), Research Grants and Scholarships

May 2025

1. NSERC overview



Federal ‘extramural’ research ecosystem

PARLIAMENT

Prime Minister

Chief Science Advisor

CABINET

Minister of Health

Minister of Industry

Health Portfolio

Industry Portfolio

Canada Research Coordinating Committee (CRCC)

Government “Tri-Agencies”

CIHR IRSC
Canadian Institutes of Health Research | Instituts de recherche en santé du Canada
Health

NSERC CRSNG
Natural Sciences & Engineering

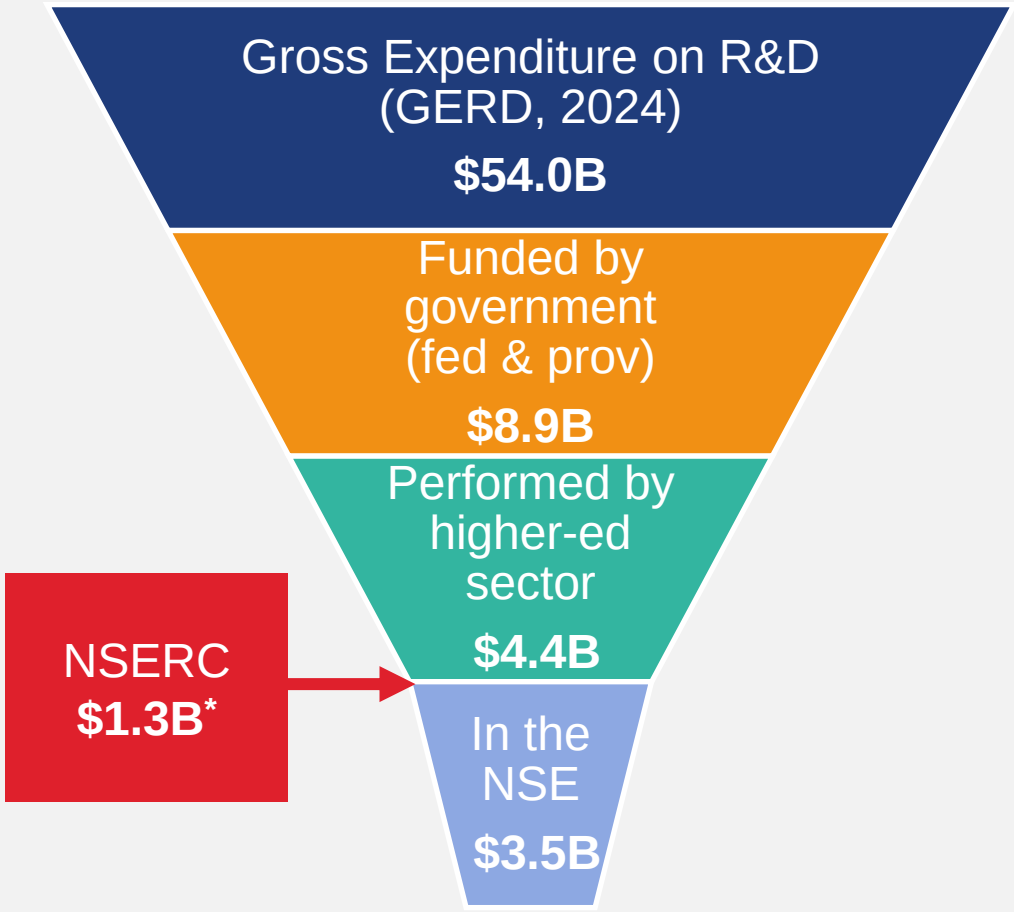
SSHRC CRSH
Social Sciences and Humanities Research Council of Canada
Conseil de recherches en sciences humaines du Canada
Social Sciences & Humanities

INNOVATION.CA
CANADA FOUNDATION FOR INNOVATION | FONDATION CANADIENNE POUR L'INNOVATION

Extramural Research

Supporting natural sciences and engineering in Canada

- **Building** a **national knowledge base** in the natural sciences and engineering through broad-based **discovery-oriented research**
- **Catalyzing the development of highly-qualified research professionals** to create talent that innovative organizations need
- **Powering industry partnerships with universities and colleges** to create a culture of academic entrepreneurialism
- **Investing** in research to **deliver impact locally, nationally, and globally**



NSERC is Canada's largest provider of grants and scholarships for Natural Sciences and Engineering (NSE) research

nserc-crsng.gc.ca

Unclassified | Sans classification

*2023-24

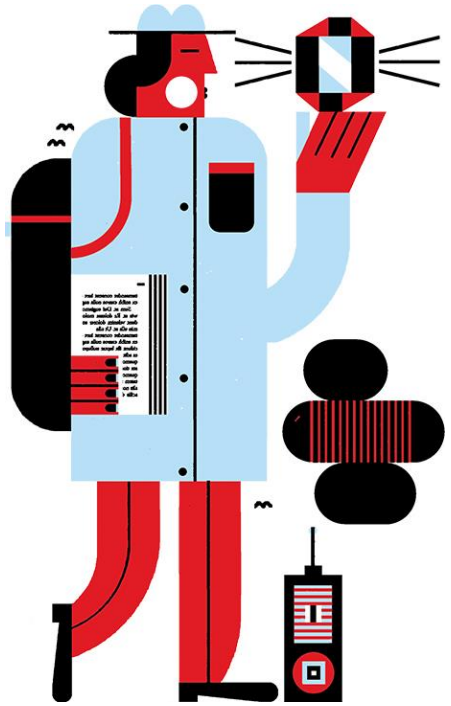
NSERC overview

NSERC funding

- Promotes and supports post-secondary research and training in the natural sciences and engineering
- Engages **78 universities** and **89 colleges & polytechnics** every year through various programs
- Empowers:
  - 13,200 researchers
  - 2,500 partners
  - 6,800 students and fellows through scholarships and fellowships

Fiscal year 2023–24

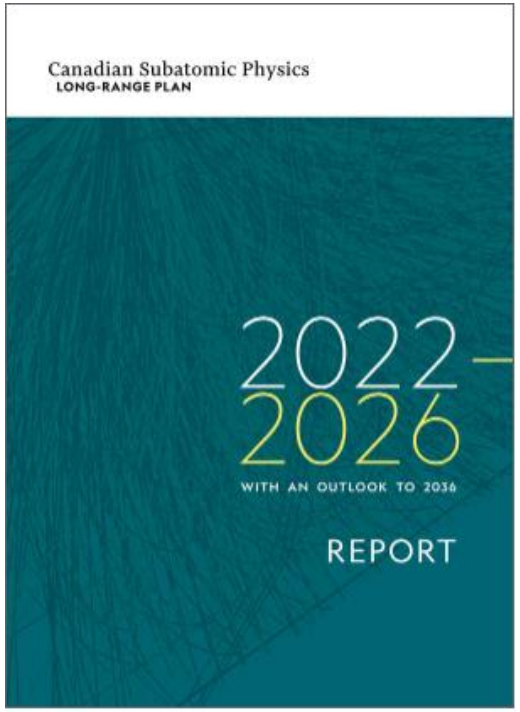
2. NSERC Support for Subatomic Physics (SAP) Research



Long-Range Plan (LRP) for Subatomic Physics

- The Canadian SAP community establishes its scientific and funding priorities through periodic LRPs.
  - Most recent plan covers 2022-2026 with an outlook to 2036
    - nEXO is identified as a high-priority initiative
  - 2027-2034 LRP process has begun with a final report expected in fall 2026

- Key Objectives:
  - Identify and prioritize critical scientific questions
  - Align national and international research projects
  - Guide funding, infrastructure, and resource allocations
  - Support training, equity, diversity, and outreach initiatives

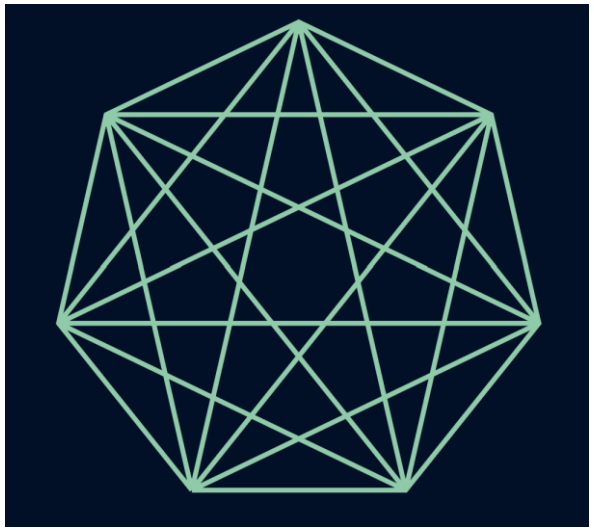


NSERC Funding for Subatomic Physics (SAP) Research

- Funding envelope $30.6M/yr
- Grants based on Subatomic Physics Evaluation Section recommendations

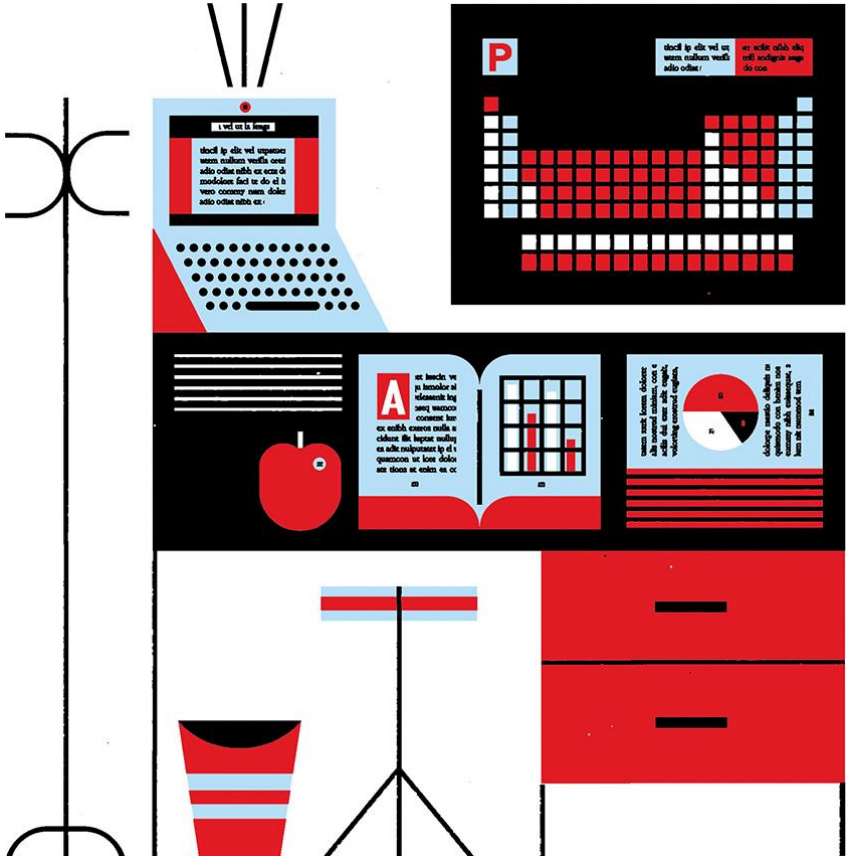
- Recognizes unique aspects of SAP research
  - Complexity and inter-dependency of many proposals
  - Country-wide collaborations among individuals, groups, universities, and national research organizations
  - Long-term and large-scale international projects and commitments

- New funding for the Arthur B. McDonald Canadian Astroparticle Physics Research Institute: $9.1M per year for 5 years starting in 2024



NSERC Funding for 0νββ Over the Past Decade

- NSERC supports the operating and personnel costs for projects, including small equipment
- CFI funds capital investments such as infrastructure and major equipment
  - SNOLAB
    - Excluding 0νββ research, NSERC has invested $36M over the past 10 years to support research activities at SNOLAB
  - 0νββ Research
    - NSERC has invested $9.4M over the past 10 years
    - Majority of this funding was in support of EXO-200 and nEXO



Questions?

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