



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 384

Type: **Invited Speaker** / **Conférencier(ère) invité(e)**

The New Infrared Free Electron Laser at Waterloo: Progress and Future Applications

Monday 9 June 2025 15:15 (30 minutes)

Canada's new infrared free electron laser (IR-FEL) user facility will be built at the University of Waterloo. This initiative, which is being undertaken in partnership with TRIUMF, the Canadian Light Source, and several universities from across Canada, will open new research directions in health sciences, the natural sciences, and engineering. Based on the successful designs of the IR-FELs at FELIX and the Fritz Haber Institute, Water-FEL will enable characterization of molecules and materials, with applications in food safety and security, environmental monitoring, and diagnosis of disease. This seminar will provide an overview of infrastructure specifications, timelines, and future research directions.

Presenter: HOPKINS, Scott (University of Waterloo)

Session Classification: (DAPI) M2-1 | (DPAI) Accelerator Topics