



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 4581 Type: **Poster Competition (Graduate Student) / Compétition affiches (Étudiant(e) 2e ou 3e cycle)**

(G*) (POS-6) Bringing Graduate Content into Undergraduate Labs

Tuesday 28 May 2024 17:49 (2 minutes)

In this poster, I discuss the pedagogical efforts put forth in developing appropriate undergraduate labs while making use of phenomena studied in graduate physics courses.

This work is a part of the undergraduate lab revision process at the University of Waterloo and presents our efforts in bringing inquiry-based lab pedagogy to the upper year undergraduate students.

We discuss the reasoning behind taking specific concepts usually reserved for graduate levels and define criteria and procedure to ensure our students' learning and agency are not superficial.

Keyword-1

Ultrafast Lasers

Keyword-2

Physics Knowledge Integration

Keyword-3

Undergraduate Lab Education

Primary author: NANDIVADA, Urja

Co-authors: STRICKLAND, Donna (University of Waterloo); CRONE, Joshua (University of Waterloo); CUMMINGS, Karen; WARD, Meg (University of Waterloo)

Presenter: NANDIVADA, Urja

Session Classification: DPE Poster Session & Student Poster Competition (3) | Session d'affiches DEP et concours d'affiches étudiantes (3)

Track Classification: Technical Sessions / Sessions techniques: Physics Education / Enseignement de la physique (DPE-DEP)