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WITHDRAWN Upper Level Undergraduate Physics Laboratories Competencies

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The undergraduate laboratory is an integral part of the physics curriculum because of the experimental nature physics as a discipline. The importance of the laboratory component in physics education cannot be overemphasized. Considerable efforts were made and resources invested in revitalizing the introductory undergraduate laboratories and integrating these experiences with the rest of the course components (such as studios, labatorials and practical setting) in many universities across Canada. There is a growing body of data pointing out how the effective introductory laboratories environment can be created and maintained. However, much less attention was devoted so far to the revitalization of the upper division undergraduate laboratories, despite the fact that these laboratories are providing the initial training to the students in STEM related disciplines that are crucial for the technological progress of the society We feel that the time is ready to open a discussion about the desired learning outcomes of advanced physics laboratories and mapping the ways to achieve them.

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