

*TUESDAY Seminar*

**APRIL 27 | 6 PM**

via Zoom (see email)

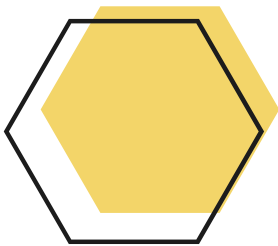


## **APPLICATION OF MACHINE LEARNING TO LASER-PLASMA BASED PARTICLE ACCELERATION**

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A prolific area of research that has emerged over the last two decades is the use of high-intensity lasers to drive particle beams. Advancements in high-repletion rate laser systems, that is lasers that can fire at rates greater than 1 Hz, as well as machine learning tools provide novel opportunities to accelerate the rate of scientific discovery in this area. This seminar details new work at the intersection of computation, machine learning and laser-plasma based acceleration for fast-analysis of resulting particle sources towards the goal of tunable particle sources.

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