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Type: **Invited talk**

Applications of machine learning to plasma-based acceleration

Tuesday, 20 September 2022 10:50 (20 minutes)

This talk will review recent applications of machine learning techniques to plasma-based acceleration, both for simulation workflows and for real-time control of experiments. I will briefly describe the working principle of some of these techniques, and discuss how plasma-based accelerators could take advantage of them. I will also discuss some of the recent applications of machine learning to conventional accelerators, and how these advances could carry over to plasma-based accelerators.

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