

Application of novel machine learning algorithms in accelerator physics

Friday, 22 August 2025 15:00 (20 minutes)

In recent years, we have proposed several novel machine learning algorithms and applied them to the field of accelerator physics (including lattice design, high-frequency cavity optimization, linear accelerator design, etc.), achieving promising results and publishing a series of SCI papers. We also pioneered the application of quantum machine learning in accelerator physics, demonstrating its significant potential in this field. The work was published in a Q1 SCI journal. This talk will present the corresponding results.

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