

Acceleration and Polarization in the Radiation Dominated Reflection Regime

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For the interaction with extremely intense laser fields, radiation reaction is often playing a major role for the polarization and acceleration mechanisms [1,2]. In this short talk, a focus will be placed on the particular laser acceleration in the radiation reaction dominated reflection regime [3].

References

- [1] K-H Zhuang, Y-Y Chen, Y-F Li, K Z Hatsagortsyan and C H Keitel, Phys. Rev. D **108**, 033001 (2023)
- [2] Z Gong, X Shen, K Z Hatsagortsyan and C H Keitel, Phys. Rev. Letters **131**, 225101 (2023)
- [3] X Shen, Y-Y Chen, K Z Hatsagortsyan and C H Keitel, arXiv:2504.18023 (2025)