Characterisation of laser-driven relativistic positron beams


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Characterisation of laser-driven relativistic positron beams

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The generation of high-quality positron beams is of increasing relevance to a wide range of academic and industrial applications, from experimental research in subjects such as astrophysics, nuclear physics, particle physics and material science, to use in industry as a high-precision tool for the detection of material defects. Here, we report on the laser-driven production of high-quality relativistic positron beams, and in so doing, we highlight the potential of contemporary laser technology to be utilised as a more compact and efficient positron source, particularly suitable for injection in radio-frequency accelerators.

References

