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Staging laser wakefield acceleration research at Osaka university; Towards practical accelerators

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Laser-based wakefield accelerators have tremendous potential in basic science, photon science, medical and industrial applications. However challenging issues, as beam quality and stability, must be solved before such compact accelerators become mature user facilities. In Osaka University, the efforts are now focused on the design and construction of a usable laser-driven plasma accelerator. The studies, as well as the status of the accelerator will be presented.

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