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FACET-II: Status of the first experiments and the road ahead

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The FACET-II facility at SLAC National Accelerator Laboratory conducts a broad science program based on the interaction of low-emittance high-current 10 GeV electron beams with lasers, plasmas and solids. FACET-II operates as a National User Facility while engaging a broad User community to develop and execute experimental proposals that advance the development of plasma wakefield accelerators. The FACET-II facility has completed construction, initial commissioning and began first experiments in the summer of 2022. The special features of FACET-II will be shown and the status of the first experiments invited for beam time will be presented.

Acknowledgments

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Session Classification: Plenary

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