

Physics and Applications of High Brightness Beams



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Status update on Dielectric Trojan Horse experiment

The Trojan Horse experiment demonstrated the concept of a laser initiated plasma photocathode within a plasma wakefield bubble. In a similar concept, the plasma photocathode is located within a dielectric wakefield accelerator. Although the fields in the dielectric are not as high as that of a plasma, GV/m fields are still attainable, and due to operation at lower frequency, timing requirements are reduced. In this paper, we present some of the first results in preparation for demonstration of the experiment at the Argonne Wakefield Accelerator.

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