PHYSICS AND ASTRONOMY COLLOQUIUM

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Accelerator on a Chip: Recent Progress (>600MeV/m gradient)
A Path to TeV Energy Scale Physics and Table Top Coherent X-rays

Laser acceleration in dielectric structures offers a new approach to the next generation of accelerators. The recently demonstrated gradient of >600MeV/m is a first step toward an accelerator on-a-chip fabricated using modern lithographic methods. Accelerators on a chip enable attosecond physics from the XUV to X-ray region and open the possibility of TeV energy scale physics in the future.

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