



## **Schumacher**

Furthermore, the whole plasma wake excitation is caused mostly by the drive laser, which depletes its substantial energy. Researchers worldwide try to tackle this challenge. Please note that some figures may have been included with permission from other third parties.

### **Laser Physics at Relativistic Intensities**

Therefore, the effect of the CEP on electron injection is significant only if the injection length is smaller than  $L/2\pi$ , which therefore requires a very localized injection and places stringent demands on the stability of all other pulse parameters in space, time and energy.

### **Time evolution of nanowire arrays irradiated at relativistic intensities**

Therefore, the incident signal pulse intensity should not be too high. An iterative algorithm then reconstructs the spectral amplitude and phase of the laser pulse in focus, providing a complete temporal characterization of the laser pulse at best compression. First, an intense drive pulse propagates in an underdense plasma and creates a nonlinear plasma wake, which is composed of a few plasma bubbles moving at a phase velocity close to the group velocity of the laser pulse.

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