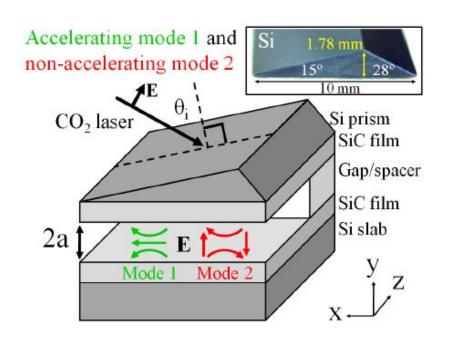
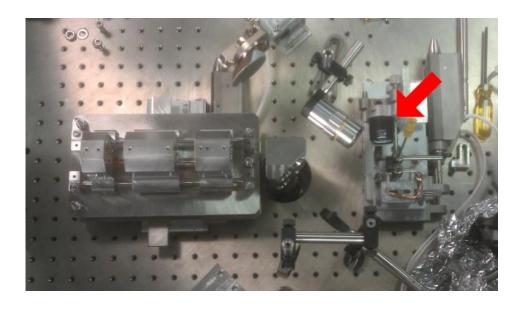


## Beam-driven Surface Wave Accelerator Based on Silicon Carbide

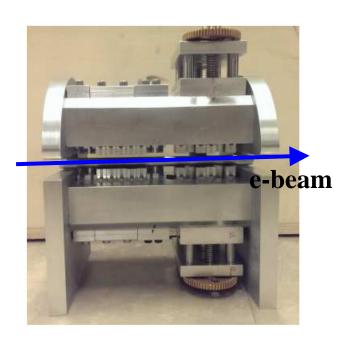
## **Gennady Shvets, Cornell University**

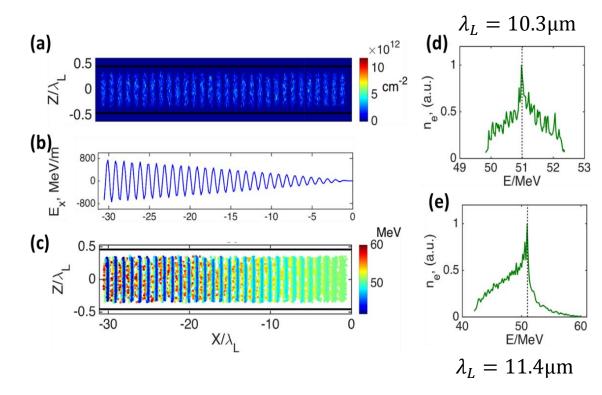






## Laser bunching of the driver beam





- •Strong preference: to operate between  $\lambda = 10.7 \mu m$  and  $\lambda = 11.4 \mu m$
- •Presently the CO<sub>2</sub> laser runs at  $\lambda = 10.3 \mu m \rightarrow$  no luminous surface waves
- •Need to have the capability to use a different isotope mixture