

TAU eSEE

SETTING THE STANDARD FOR SINGLE EVENT EFFECTS TESTING

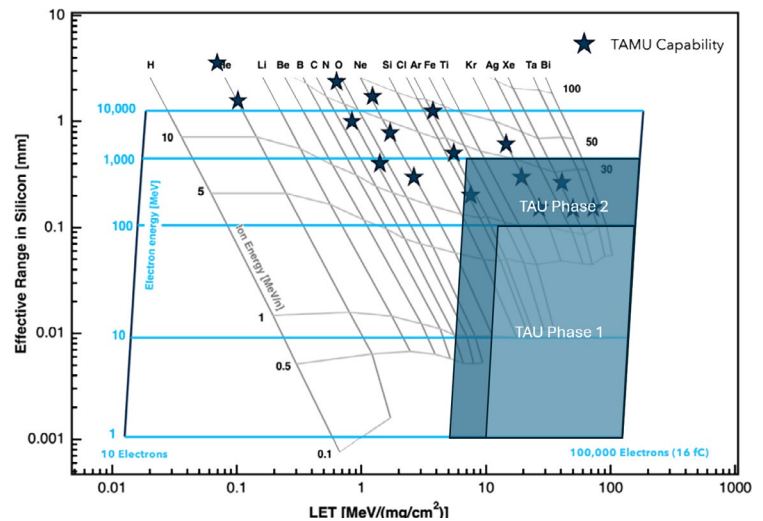
TAU eSEE is the game-changing compact particle accelerator for radiation testing of space-bound electronics.

Developed to meet the demands of the Defense Advanced Research Projects Agency, TAU eSEE offers ultrafast electron beams for reliable testing with independently tunable LET and testing depth.

This novel approach meets the demand for high LET testing while scaling to high penetration depth. Precise control of beam size and position allows for testing with unprecedented lateral resolution, ideal for identifying SEE-induced failure sites in bespoke and COTS devices, and accelerating your design cycles.

Experience the benefits of TAU eSEE firsthand by reserving beamtime at TAU Labs in Carlsbad, CA, or get the system for your own facility.

RELEVANT RANGE / LET FOR IONS & ELECTRONS



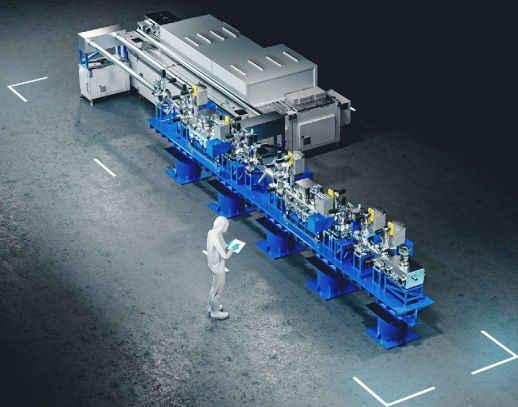
RELATIVISTIC ELECTRON BUNCHES ARE THE PREFERABLE ALTERNATIVE TO IONS

Ultrafast electrons are accelerated with TAU's compact laser-powered accelerator

The Linear Energy Transfer (LET) is proportional to the electron bunch charge

The depth of testing inside the device is proportional to the electron kinetic energy

RADIATION TESTING - FASTER, EASIER, COMPACT & AFFORDABLE



- Pre-Screening
- Post-Screening
- HI Alternative
- When Pulsed Lasers Fail

FEATURES



NO LONG WAIT TIMES

TAU eSEE gives you immediate access to beamtime when your project demands it, eliminating the long wait times typical at traditional test facilities.



LOWER OVERALL COSTS

TAU eSEE is a cost-effective solution for radiation testing of COTS or bespoke parts by leveraging compact laser-powered electron accelerators.



COMPACT & FLEXIBLE

TAU eSEE is a compact and flexible platform that easily integrates into existing infrastructure to support SEE testing at your facility.



BEAMTIME CLOSE TO YOU - OR IN YOUR OWN FACILITY

TAU Labs is conveniently located between Los Angeles and San Diego. For even greater convenience, bring the unique, cutting edge technology to your own facility.

SPECIFICATIONS

LET _____ Tunable up to ~ 100 MeV/(mg/cm²)
 Range (Phase 1) _____ 100 μm in Si
 Range (Phase 2) _____ 1 mm in Si
 Electron Energy (Phase 1) _____ Up to 100 MeV
 Electron Energy (Phase 2) _____ > 1 GeV
 Beam Size _____ Down to 1 μm (diam.)
 Exposure Rate _____ 100 Hz

Continuous developments underway, specifications subject to change without notice | © March 2026

AVAILABILITY

2026

- Research collaborations @ UT Austin (Spring 2026)
- Commercial testing @ TAU Labs (Q3/Q4 2026)
- Reserve beamtime at TAU Labs

2027-2028

- Extended range for simpler DUT preparation
- Improved exposure rate for faster throughput
- Get the eSEE system for your facility

