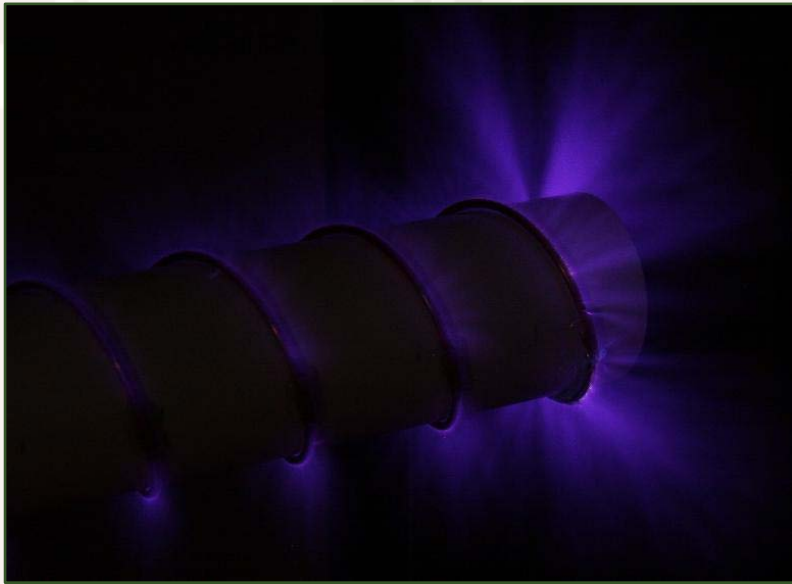




Microwave Vehicle Stopper



Results

- Attempts to reproduce these results with a compact 60 Joule Marx Generator into a resonant antenna:
 - Generated microwaves
 - Provided poor stopping power
- Built a high power solid state amplifier stopping system and reproduced vehicle stopping
- Determined that the practical size for a system at the current state-of-the-art is the back of a flatbed truck

Benefits

- A safe method for stopping vehicles at checkpoints or during pursuit

Problem

Prove that microwave vehicle stopping is feasible. Determine size, weight, power for a practical system. Determine vehicle component vulnerability profiles.

Solution

- Developed and demonstrated vehicle stopping test procedure derived from automotive EMI test procedures
- Built and tested two vehicle stopper systems:
 - Compact 60 Joule Marx Generator into a resonant antenna
 - High power solid state microwave amplifier stopping system

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