# Controlled X-Ray for Security Inspection

A researcher at SLAC National Accelerator Laboratory has developed a pulsed X-ray system for fast, high-throughput, unambiguous identification of materials in moving containers. This method uses X-ray pulses with controllable intra-pulse energy distribution to detect container contents such as explosives, nuclear materials or drugs. The mode and apparatus allows flexibility to make different scenarios of inspection in a range of checkpoint locations.

# Applications

• **Cargo inspection system** - non-destructive identification of contents at seaports, security checkpoints, land border crossing, customs etc.

### Advantages

- Fast and high throughput up to 60 km/h cargo speed
- Sensitive high probability of unambiguous material identification
- Non-destructive

# **Publications**

• <u>Concept of RF Linac for Intra-Pulse Multi-Energy Scan</u> (SLAC-PUB-15943)

#### Patents

• Published Application: 20140270086

#### Innovators

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