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1. MDA12-009: Fast-Running Physics-Based Models for Intercept Debris Aero-heating and Aero-thermal Demise

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop an approach for assessing the aero-thermal demise of the debris generated following a ballistic missile defense intercept DESCRIPTION: The intercept of a ballistic missile at high altitudes generates thousands of debris fragments, ranging in size from less than a millimeter to tens of centimeters. These pieces typically re-enter the atmosphere, and may or may not burn ...

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2. MDA12-010: Antenna design in the Plasma Environment

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop a tool to enable modeling and simulation and, in turn, design of antennas in a re-entry environment. Specifically, the goal is for a tool that provides the coupled prediction of the antenna performance in a plasma sheath. DESCRIPTION: The Missile Defense Agency flies a variety of ballistic missile targets for all elements of the Ballistic Missile Defense System. Dependi ...

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3. MDA12-011: RF Material Property Characterization

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Develop a system capable of providing non-destructive evaluation (NDE) of composite, non-conductive materials in multi-layer stacks while simultaneously providing feedback on material thicknesses and RF material properties. DESCRIPTION: The Missile Defense Agency produces many composite materials in applications spanning the breadth of the agency. Composite structures and layup ...

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4. MDA12-012: Advanced Techniques for Lossless Compression of Target Vehicle Telemetry

   Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

   OBJECTIVE: Help offset the limited bandwidth for vehicle telemetry against the increasing requests for addition telemetered truth information by using new mathematical techniques developed for video and audio or related applications and applying to telemetry encoding. A generalized methodology which can be adapted to imagery, health and status information, inertial measurement or global position ...

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5. MDA12-013: Modular Hypergolic Leak Detector

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The Missile Defense Agency (MDA) is seeking innovative concepts and products to improve the safety and logistics challenges of hypergolic propellant based propulsion systems. This includes sensor technology and leak mitigation technologies. The overall goal of projects selected under this topic will be to develop and demonstrate innovative technologies to enable safe storage and deploy ...

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6. MDA12-014: Acquisition, Tracking and Pointing Technologies for High Energy Laser Applications

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate advanced and innovative components, algorithms and electronics supporting next generation acquisition, tracking and pointing (ATP) sensor and jitter control technologies to provide support to future missile defense missions using significantly less components than traditional applications. Even though ATP is a broad topic, the MDA focus areas for this year are ...

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7. MDA12-015: Development of Line-narrowed Diode Pump Sources for DPAL systems

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop line-narrowed, frequency stabilized diode pump sources to allow efficient resonant optical pumping of alkali laser systems. DESCRIPTION: This topic addresses diode technologies focused on enabling advanced closed cycle flowing media laser systems that offer compact directed energy system solutions for future ballistic missile defense applications. A promising e ...

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8. MDA12-016: Optics and Coatings for High Energy Laser Applications

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: High-performance optical substrates and coatings and the industrial base and expertise required to develop and produce same are essential ubiquitous elements for continued successful development of high-energy lasers, sensors, countermeasures, and other optical systems for military purposes. Proposed here is the development of processes and method for production of coatings and ...

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9. MDA12-017: Atmospheric Characterization for Directed Energy Applications

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: There is a need to reliably measure, analyze and forecast with adequate accuracy and precision the high altitude (upper troposphere and stratosphere to 100 kft and beyond) atmospheric conditions relevant to high energy laser propagation. Existing ground-based atmospheric profilers and scintillometers capable of measuring at high altitudes are subject to cloud impacts, and/or they are ...

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10. MDA12-018: Light weight Rubidium-Metal Vapor Circulating System

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate an innovative, lightweight, and contamination resistant Rubidium Helium circulation system suitable for supplying the gain medium of a Diode Pumped Alkali Laser System (DPALS) DESCRIPTION: This topic addresses material technologies focused on enabling advanced closed cycle flowing media laser systems that offer compact directed energy system solutions f ...

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