

## 00 Innovative Research

- **Average power and pulse energy scaling of 1.6  $\mu\text{m}$  resonantly-diode-pumped erbium lasers**  
L. GALECKI, M. EICHHORN, W. ZENDZIAN\*  
ISL-U-PU 6002/2014
- **High-resolution thermal imaging with a combination of nano-focus X-ray diffraction and ultra-fast chip calorimetry**  
M. ROSENTHAL, D. DOBLAS\*, J. J.HERNANDEZ\*, Y. I. ODARCHENKO\*, M. BURGHAMMER\*, E. Di COLA\*, D. SPITZER, A. E. ANTIPOV\*, L. S. ALDOSHIN\*, D. A. IVANOV\*  
ISL-PR-U-PU 6004/2014
- **High-frequency CMR-B-scalar sensor for pulsed magnetic field measurement**  
S. BALEVICIUS\*, N. ŽURAUSKIENE\*, V. STANKEVIC\*, T. STANKEVIC\*, J. NOVICKIJ\*, M. SCHNEIDER  
ISL-PR-U-PU 6005/2014
- **Temperature versus magnetic pressure at the surface of a semi-infinite plate**  
M.J. LÖFFLER\*, M. SCHNEIDER  
ISL-PR-U-PU 6007/2014
- **Electromechanical modeling of components of a linear electromagnetic accelerator**  
M. SCHNEIDER, J. RACKAUSKAS, M.J. LÖFFLER\*  
ISL-PR-U-PU 6008/2014
- **Magnetic diffusion inside the rails of an electromagnetic launcher: experimental and numerical studies**  
T. STANKEVIC\*, M. SCHNEIDER, S. BALEVICIUS\*  
ISL-PR-U-PU 6009/2014
- **Novel sensor for projectile detection in a multishot railgun**  
C. SCHUPPLER, F. ALOUAHABI, M. SCHNEIDER  
ISL-PR-U-PU 6010/2014
- **Actively controlling the muzzle velocity of a railgun**  
T. SIAENEN, M. SCHNEIDER, P. ZACHARIAS\*, M.J. LÖFFLER\*  
ISL-PR-U-PU 6012/2014
- **Experimental and numerical investigations of vibrations at a railgun with discrete supports**  
C. SCHUPPLER, L. TUMONIS\*, R. KACIANAUSKAS\*, M. SCHNEIDER  
ISL-PR-U-PU 6013/2014
- **Modélisation d'une unité de mesure inertielle augmentée de capteurs magnétiques à référence absolue**  
**Modelisation of an inertial measurement unit augmented with absolute reference magnetic sensors**  
T. BRUNNER, S. CHANGEY, J.P. LAUFFENBURGER\*, M. BASSET\*, E. PECHEUR  
ISL-PU 6016/2014
- **Laser damage studies of CdSiP<sub>2</sub> and ZnGeP<sub>2</sub> nonlinear crystals with nanosecond pulses at 1064 and 2090 nm**  
A. HILDENBRAND, C. KIELECK, A. TYAZHEV\*, G. MARCHEV\*, G. STÖPPLER, M. EICHHORN, P.G. SCHUNEMANN\*, V. PETROV\*  
ISL-U-PU 6020/2014
- **Wavelength dependence of the orientation of optic axes in KGW**  
R. CATTOOR, I. MANEK-HÖNNINGER\*, M. TONDUSSON\*, Ph. VEBER\*, T. K. KALKANDJIEV\*, D. RYTZ\*, L. CANIONI\*, M. EICHHORN  
ISL-PR-U-PU 6024/2014
- **Crystal growth and spectroscopic characterization of KY<sub>3</sub>F<sub>10</sub>: Ho<sup>3+</sup>**  
D. PARISI\*, S. VERONESI\*, G. BOLOGNESI\*, M. SCHELLHORN, M. TONELLI\*  
ISL-PU 6026/2014
- **Host and growth technique to develop laser materials in the 2- $\mu\text{m}$  spectral region**  
D. PARISI\*, S. VERONESI\*, G. BOLOGNESI\*, Y. ZHANG\*, M. SCHELLHORN, M. TONELLI\*  
ISL-U-PU 6027/2014

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- **Optical beam induced current measurements based on the two-photon absorption process in 4H-SiC diodes**  
H. HAMAD\*, C. RAYNAUD\*, P. BEVILACQUA\*, D. TOURNIER\*, B. VERGNE, D. PLANSON\*  
ISL-PR-U-PU 6029/2014
- **Visualisation par variation d'indice de réfraction**  
**Visualization by refractive index variation**  
F. LEOPOLD, F. JAGUSINSKI, J.-P. PRENEL\*, P. SMIGIELSKI\*  
ISL-U-PU 6033/2014
- **Circuit models explaining the bandwidth behavior of small circular cavity- backed patch antennas**  
M. MARTINIS, K. MAHDJOUBI\*, R. SAULEAU\*, S. COLLARDEY\*, L. BERNARD  
ISL-U-PU 6042/2014
- **Bandwidth behavior of miniature cavity antennas**  
M. MARTINIS, K. MAHDJOUBI\*, R. SAULEAU\*, S. COLLARDEY\*, L. BERNARD  
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- **Evaluation of attitude estimation algorithms using absolute magnetic reference data: methodology and results**  
T. BRUNNER, S. CHANGEY, J.-P. LAUFFENBURGER, M. BASSET, E. PECHEUR  
ISL-U-PU 6048/2014
- **Penetration and propagation into biological matter and biological effects of high-power ultra-wideband pulses: a review**  
Th. SCHUNCK, F. BIETH, S. PINGUET, Ph. DELMOTE  
ISL-PR-U-PU 6071/2014
- **Hardware-in-the-Loop experimental setup development for a guided projectile in a wind tunnel**  
G. STRUB, V. GASSMANN, S. THEODOULIS, S. DOBRE, M. BASSET\*  
ISL-U-PU 6076/2014
- **Mid-infrared lasing from Ho<sup>3+</sup> in bulk InF<sub>3</sub> glass and BYF crystal**  
A. BERROU, C. KIELECK, M. EICHHORN  
ISL-U-PU 6084/2014
- **Continuous-wave and Q-switched operation of a resonantly pumped Ho<sup>3+</sup>:KY<sub>3</sub>F<sub>10</sub> laser**  
M. SCHELLHORN, D. PARISI\*, M. EICHHORN, M. TONELLI\*  
ISL-PR-U-PU 6085/2014
- **Development of metamaterials based antennas at ISL**  
R. ADAM, V. JAECK, M. MARTINIS, L. BERNARD  
ISL-PU 6099/2014
- **Synthesis of Cu(OH)<sub>2</sub> and CuO nanotubes arrays on a silicon wafer**  
L. SCHLUR, K. BONNOT, D. SPITZER  
ISL-PR-U-PU 6108/2014
- **Bio-inspired explosive sensors and specific signatures**  
D. SPITZER, K. BONNOT, L. SCHLUR, N. PIAZZON\*, D. DOBLAS\*, D. IVANOV\*, T. COTTINEAU\*, V. KELLER\*  
ISL-PR-U-PU 6109/2014

## 01 Energetic and advanced protective materials

- **Development of the Dynamic Compaction Resistance Sintering (DCRS): A new process for powder consolidation combining electric current and dynamic loading**  
P. ACQUIER, S. LEMONNIER, N. ALLAIN-BONNASSO\*, A. RUSINEK\*, T. GROSDIDIER\*, E. BARRAUD  
ISL-PR-U-PU 6069/2014
- **Optimization of the spark plasma sintering processing parameters affecting the properties of polyimide**  
M. SCHWERTZ, P. RANQUE, S. LEMONNIER, E. BARRAUD, A. CARRADO\*, M.-F. VALLAT\*, M. NARDIN\*  
ISL-PR-U-PU 6073/2014
- **Consolidation by spark plasma sintering of polyimide and polyetheretherketone**  
M. SCHWERTZ, S. LEMONNIER, E. BARRAUD, A. CARRADO\*, M.-F. VALLAT\*, M. NARDIN\*  
ISL-PR-U-PU 6074/2014
- **[IN PRESS] Primary Chemical Sequence Ultimately Determines Crystal Thickness in Segmented All-Aliphatic Copolymers**  
Yaroslav I. Odarchenko\*, Denis V. Anokhin\*, David Doblaz, Martin Rosenthal\*, Jaime J. Hernandez\*, Loic Vidal\*, Niels J. Sijbrandi\*, Ad J. Kimenai\*, Edwin P. C. Mes\*, Rene ´ Broos\*, Georg Bar\*, Pieter J. Dijkstra\*, Jan Feijen\*, Mikhail Soloviev\*, Dimitri A. Ivanov\*  
ISL-PR-U-PU 6079/2014
- **[IN PRESS] Detonation of nanosized explosive: new mechanistic model for nanodiamond formation**  
V. Pichot, M.Comet, B. Risse, D. Spitzer  
ISL-PR-U-PU 6082/2014
- **[IN PRESS] Mechanical behavior of nanostructured and microstructured explosives**  
V. Pichot, B. Risse, J. Mory, C. Nicolle, F. Schnell, M. Comet, D. Spitzer  
ISL-PR-U-PU 6083/2014
- **Oxidation of detonation nanodiamonds in a reactive formulation**  
M. COMET, V. PICHOT, F. SCHNELL, D. SPITZER  
ISL-PR-U-PU 6093/2014
- **Boron as fuel for ceramic thermites**  
M. COMET, F. SCHNELL, V. PICHOT, J. MORY, B. RISSE, D. SPITZER  
ISL-PR-U-PU 6094/2014
- **Biophotonic ring resonator for ultrasensitive detection of DMMP as a simulant for organophosphorus agents**  
K. BONNOT, F. CUESTA-SOTO\*, M. RODRIGO\*, A. VARRIALE\*, N. SANCHEZ\*, S. D'AURIA\*, D. SPITZER, F. LOPEZ-ROYO\*  
ISL-PR-U-PU 6095/2014
- **Continuous engineering of nano-cocrystals for medical and energetic applications**  
D. SPITZER, B. RISSE, F. SCHNELL, V. PICHOT, M. KLAUMÜNZER, M.R. SCHÄFER  
ISL-PR-U-PU 6096/2014
- **Reactive properties of some nanothermites**  
M. COMET, D. HASSLER, B. KHASAINOV\*, F. SCHNELL, A. BACH, V. PICHOT, D. SPITZER  
ISL-PU 6097/2014

## 02 Flight techniques for projectiles

- **"ISL-Shock tunnel operation with contoured Mach-4.5-6-8-10-nozzles for hypersonic test applications"**  
B. SAUERWEIN, R. HRUSCHKA, P. GNEMMI, C. REY, M. BASTIDE  
ISL-PU 6001/2014
- **Gun-Launched Micro Air Vehicle: Concept, challenges and results**  
E. ROUSSEL, P. GNEMMI, S. CHANGEY  
ISL-U-PU 6015/2014
- **Control of a gun-launched MAV for scene observation**  
V. GASSMANN, A. DROUOT\*, C. CHAUFFAUT\*, E. ROUSSEL, S. CHANGEY, P. GNEMMI, E. RICHARD\*, M. BOUTAYEB\*, R. LOZANO\*  
ISL-PU 6017/2014
- **Conception et réalisation d'un démonstrateur pour un système hybride projectile/drone miniature. Bilan**  
**Conception and realisation of a demonstrator for a hybrid projectile/MAV system. Assessment**  
P. GNEMMI, S. CHANGEY, M. BOUTAYEB\*, R. LOZANO\*, R. SIRYANI\*  
ISL-PU 6019/2014
- **Prediction of aerodynamic performances of a gun launched micro air vehicle**  
P. GNEMMI, C. REY, K. MEDER  
ISL-PR-U-PU 6031/2014
- **Réseau d'antennes phasé et commuté sur structure conique**  
**Phased and switched antenna array on a conical structure**  
V. JAECK, L. BERNARD, K. MAHDJOUBI\*, R. SAULEAU\*, S. COLLARDEY\*, P. POULIGUEN\*, P. POTIER\*  
ISL-PU 6043/2014
- **A switched phased array on a conical structure**  
V. JAECK, L. BERNARD, K. MAHDJOUBI\*, R. SAULEAU\*, S. COLLARDEY\*, P. POULIGUEN\*, P. POTIER\*  
ISL-U-PU 6045/2014
- **Interior ballistics simulation of the two chambers GLMAV launcher**  
J. KRCCMAR, C. STEINBACH, K. DAHHANI  
ISL-PR-U-PU 6051/2014
- **Real-time attitude-independent three-axis magnetometer calibration for spinning projectiles: A sliding window approach**  
B. GRANDVALLET\*, A. ZEMOUCHE\*, M. BOUTAYEB\*, S. CHANGEY  
ISL-PR-U-PU 6052/2014
- **Attitude estimation of a projectile using magnetometers and accelerometers: Experimental validation**  
S. CHANGEY, E. PECHEUR, T. BRUNNER  
ISL-U-PU 6053/2014
- **Grey-box identification of the pitch damping coefficient from free-flight tests**  
M. ALBISSER, S. DOBRE, C. BERNER, M. THOMASSIN\*, H. GARNIER\*  
ISL-PU 6056/2014
- **Aerodynamic coefficient identification procedure of a finned projectile using magnetometer and video free-flight data**  
M. ALBISSER, C. BERNER, S. DOBRE, M. THOMASSIN\*, H. GARNIER\*  
ISL-PU 6057/2014
- **Supersonic projectile behavior under electric discharges generating a plasma**  
P. GNEMMI, C. REY, P. WEY  
ISL-U-PU 6066/2014
- **Instrumented fuzes for aeroballistic diagnostics of large-caliber projectiles**  
V. JAECK, L. BERNARD, E. SOMMER, J. KREITZ, D. SCHMOLTZI, A. SCHNEIDER  
ISL-U-PU 6068/2014
- **2D course correction system for spin-stabilized projectiles using a spoiler control surface**

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P. WEY, B. MARTINEZ, R. CAYZAC\*, E. CARETTE\*, P. DENIS\*, C. GRIGNON\*  
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- **Pitch/yaw channels control design for a 155 mm projectile with rotating canards, using a H8 loop-shaping design procedure**  
F. SEVE, S. THEODOULIS, P. WERNERT, M. ZASADZINSKI\*, M. BOUTAYEB\*  
ISL-U-PU 6086/2014
- **Sensor position influence on modeling and control of 155 mm canard-guided spin-stabilized projectiles**  
F. SEVE, S. THEODOULIS, P. WERNERT, M. ZASADZINSKI\*, M. BOUTAYEB\*  
ISL-U-PU 6087/2014
- **Fixed structure hinf control for a canard-guided projectile pitch/yaw dynamics autopilot design**  
F. SEVE, S. THEODOULIS, M. ZASADZINSKI\*, M. BOUTAYEB\*, P. WERNERT  
ISL-U-PU 6088/2014
- **Comparison of two hinf loop-shaping robust autopilot structure configurations for a 155 mm spin-stabilized canard-guided projectile**  
F. SEVE, S. THEODOULIS, M. ZASADZINSKI\*, M. BOUTAYEB\*, P. WERNERT  
ISL-U-PU 6089/2014
- **Multiple shooting condensing for online gain scheduling in interceptor guidance**  
L. WALTER, G. SCHLÖFFEL, F. HOLZAPFEL\*, E. KOSTINA\*  
ISL-U-PU 6090/2014
- **Real-time optimal gain scheduling for nonlinear dynamic inversion**  
L. WALTER, S. FLEISCHMANN, G. SCHLÖFFEL, F. PETER\*, F. HOLZAPFEL\*  
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### 03 Laser and electromagnetic technologies

- **Invited paper - Latest developments on the Er<sup>3+</sup>:YAG solid state heat-capacity laser**  
S. BIGOTTA, T. IBACH, M. EICHHORN  
ISL-U-PU 6003/2014
- **Design considerations for an electromagnetic railgun to be used against antiship missile**  
J. GALLANT, E. VANDERBEKE\*, F. ALOUAHABI, M. SCHNEIDER  
ISL-PR-U-PU 6006/2014
- **Electromechanical aspects of reliable loading procedures for multishot railguns**  
C. SCHUPPLER, F. ALOUAHABI, M. SCHNEIDER  
ISL-PR-U-PU 6011/2014
- **Pulsed magnetic field measurement system based on colossal magnetoresistance-B-scalar sensors for railgun investigation**  
T. STANKEVIC\*, L. MEDIŠAUSKAS\*, V. STANKEVIC\*, S. BALEVICIUS\*, N. ŽURAUSKIENĖ\*, O. LIEBFRIED, M. SCHNEIDER  
ISL-PR-U-PU 6030/2014
- **Biological and sanitary effects of High-Power Microwave Ultra-Wideband (HPM/UWB) signals**  
F. BIETH, T. SCHUNCK, S. PINGUET, R. BISCHOFF, P. DELMOTE  
ISL-U-PU 6034/2014
- **Design and performance of a high-pressure, flowing liquid dielectric peaking switch**  
R. BISCHOFF  
ISL-PR-U-PU 6041/2014
- **Pacemaker exposure to high-power microwave ultrawideband radiation**  
F. BIETH, T. SCHUNCK, S. PINGUET, P. DELMOTE  
ISL-PR-U-PU 6055/2014
- **Conception de thyristors SiC permettant l'étude de l'amplification interne de l'allumage**  
S. SCHARNHOLZ, L.V. PHUNG\*, D. TOURNIER\*, B. VERGNE, R. HASSDORF, P. BROSSELARD\*, D. PLANSON\*  
ISL-PU 6077/2014
- **Temperature dependence of 4H-SiC ionization rates using Optical Beam Induced Current**  
H. HAMAD\*, C. RAYNAUD\*, P. BEVILACQUA\*, S. SCHARNHOLZ, D. PLANSON\*  
ISL-PU 6078/2014
- **Chargeur de condensateurs de forte puissance utilisant des IGCT dans un convertisseur**  
**Boost A high-power capacitor charger using IGCTs in a boost converter system**  
V. BROMMER, O. LIEBFRIED, S. SCHARNHOLZ  
ISL-PU 6080/2014
- **A high-pressure, flowing liquid dielectric pulse forming line**  
R. BISCHOFF  
ISL-PU 6081/2014
- **Performances of a compact, high-power, wideband & ultra-wideband electromagnetic source**  
P. DELMOTE, F. BIETH  
ISL-PU 6092/2014
- **Augmented railgun with integrated XRAM current multiplication**  
O. LIEBFRIED, M. ROCH  
ISL-PR-U-PU 6100/2014
- **2 μm and mid-IR fiber-laser-based sources for OCM**  
C. KIELECK, A. BERROU, C. KNEIS, B. DONELAN, M. EICHHORN  
ISL-U-PU 6102/2014
- **6.5 W ZnGeP<sub>2</sub> OPO directly pumped by a Q-switched Tm<sup>3+</sup>-doped single-oscillator fiber laser**  
C. KIELECK, A. BERROU, B. DONELAN, B. CADIER\*, T. ROBIN\*, M. EICHHORN  
ISL-U-PU 6103/2014

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- **OPO-based DIRCM source technology and associated field trials**  
C. KIELECK, A. HILDENBRAND, A. BERROU, M. EICHHORN, M. LASCAUD\*, P. HOULES\*,  
C. COLIN\*, G. BREHON\*  
ISL-U-PU 6104/2014
- **Laser damage of the nonlinear crystals CdSiP<sub>2</sub> and ZnGeP<sub>2</sub> studied with nanosecond pulses at 1064 and 2090 nm**  
A. HILDENBRAND, C. KIELECK, A. TYAZHEV\*, G. MARCHEV\*, G. STÖPPLER, M.  
EICHHORN, P. G. SCHUNEMANN\*, V. L. PANYUTIN\*, V. PETROV\*  
ISL-PR-U-PU 6105/2014
- **Behavior of composite materials subjected to 1,07 μm laser irradiation in the range of 100 W/cm<sup>2</sup> to 2 kW/cm<sup>2</sup>**  
F. LACROIX, A. EICHHORN, O. MULLER, V. ALLHEILY, G. L'HOSTIS\*  
ISL-U-PU 6106/2014

#### 04 Protection technologies, security, situational awareness

- **On the use of laminate protections against high velocity fragment impact**  
F. RONDOT, D. VALLÉE\*, M. LEQUIN\*, J. NUSSBAUM, K. THORAL-PIERRE\*  
ISL-U-PU 6014/2014
- **Laser gated viewing at ISL for vision through smoke, active polarimetry, and 3D imaging in NIR and SWIR wavelength bands**  
M. LAURENZIS, F. CHRISTNACHER  
ISL-U-PU 6018/2014
- **Nonline-of-sight laser gated viewing of scattered photons**  
M. LAURENZIS, A. VELTEN\*  
ISL-PR-U-PU 6023/2014
- **Impact of a distance estimation error inducing a visualized zone gap on the target illuminance in range-gated active imaging**  
A. MATWYSCHUK  
ISL-PR-U-PU 6025/2014
- **Active Imaging**  
H. D. TOLL\*, M. LAURENZIS  
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- **Quantification of the atmospheric scintillation for laser illumination in active imaging**  
J.-M. POYET, O. MEYER\*, F. CHRISTNACHER  
ISL-PR-U-PU 6032/2014
- **Performance de localisation d'un son dans le plan azimutal avec une audition perturbée**  
**Sound-localization performance in the azimuth plane with perturbed hearing**  
V. ZIMPFER  
ISL-PU 6035/2014
- **Long-term, global-scale statistics of sound propagation**  
S. CHEINET  
ISL-PR-U-PU 6036/2014
- **Theoretical and experimental comparison of flash and accumulation mode in range-gated active imaging**  
F. CHRISTNACHER, M. LAURENZIS, S. SCHERTZER  
ISL-PR-U-PU 6037/2014
- **Beam shaping of laser diode stacks for compact and efficient illumination devices at the French-German Research Institute of Saint-Louis**  
Y. LUTZ, M. LAURENZIS  
ISL-PR-U-PU 6038/2014
- **Laser diode stack beam shaping for efficient and compact long-range laser illuminator design**  
Y. LUTZ, J.-M. POYET  
ISL-PR-U-PU 6039/2014
- **Laser gated-viewing advanced range imaging methods using compressed sensing and coding of range-gates**  
M. LAURENZIS, A. WOISELLE\*  
ISL-PR-U-PU 6040/2014
- **Compressive strength of cement paste as a function of loading rate: Experiments and engineering mechanics analysis**  
I. FISCHER, B. PICHLER, E. LACH, C. TERNER, E. BARRAUD, F. BRITZ  
ISL-PR-U-PU 6046/2014
- **Modeling of the visual artifact in range-gated active imaging, especially in burst mode**  
A. MATWYSCHUK  
ISL-PR-U-PU 6047/2014
- **Impact of hearing protection devices on sound localization performance**  
V. ZIMPFER, D. SARAFIAN  
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- **Shock mitigation in aqueous foam**  
C. BRÉDA, M.-O. STURTZER, S. KERAMPAN, J.-F. LEGENDRE, Y.-M. SCOLAN  
ISL-PU 6050/2014
- **Analysis of friction influence on material deformation under biaxial compression state**  
T. FRAS, A. RUSINEK, R.B. PECHERSKI, R. BERNIER, T. JANKOWIAK  
ISL-PR-U-PU 6054/2014
- **Blast with ground reflection, a real scale experimental and numerical study**  
L. EHRHARDT, J. BOUTILLIER, P. MAGNAN, C. DECK\*, S. de MEZZO, R. WILLINGER\*  
ISL-PU 6058/2014
- **Analysis of the visual artifact in range-gated active imaging, especially in burst mode**  
A. MATWYSCHUK  
ISL-PR-U-PU 6059/2014
- **Synthesis of a Mach cone using a speaker array**  
G. MAHENC, E. BAVU\*, P. HAMERY, S. HENGY, M. MELON\*  
ISL-U-PU 6060/2014
- **Underwater laser imaging experiments in the Baltic Sea**  
M. LAURENZIS, F. CHRISTNACHER, Th. SCHOLZ\*, N. METZGER, S. SCHERTZER, E. BACHER  
ISL-U-PU 6061/2014
- **Investigation of frame-to-frame back projection and feature selection algorithms for non-line-of-sight laser gated viewing**  
M. LAURENZIS, A. VELTEN\*  
ISL-U-PU 6062/2014
- **Improvement of optical and acoustical technologies for the protection: Project IMOTEP Network of heterogeneous sensor types for the protection of camps or mobile troops**  
S. HENGY, M. LAURENZIS, V. ZIMPFER, A. SCHNEIDER  
ISL-U-PU 6063/2014
- **3D Laser gated viewing from a moving submarine platform**  
F. CHRISTNACHER, M. LAURENZIS, D. MONNIN, G. SCHMITT, N. METZGER, S. SCHERTZER, T. SCHOLZ\*  
ISL-U-PU 6064/2014
- **On the relevance of blast effect when testing a protective solution against an EFP threat**  
Y. QUIRION\*, B. BETTENCOURT\*, F. RONDOT, E. PETITPAS\*  
ISL-PU 6065/2014
- **Feature selection and back-projection algorithms for nonline-of-sight laser-gated viewing**  
M. LAURENZIS, A. VELTEN\*  
ISL-PR-U-PU 6067/2014
- **Shaped charge jet perforation of spaced masonry targets**  
B. RECK, R. HÖLLINGER\*, P. BAYER  
ISL-PU 6072/2014
- **Experimental study of the structures generated by explosive dispersal of inert particles**  
M.-O. STURTZER, D. ECKENFELS, Th. SCHUNCK, J. MORY, J.-F. LEGENDRE  
ISL-PR-PU 6075/2014
- **[IN PRESS] Characterization of the dynamic behavior of yarns for the modelling of ballistic fabrics**  
C. Chevalier, N. Faderl, A. Klavzar, C. Kerisit, D. Coutellier, F. Boussu  
ISL-PU 6101/2014
- **Submicro and nano ceramics as ballistic protective material**  
E. LACH, T. WOLF, M. SCHARF  
ISL-PR-PU 6107/2014