

# ICDIM 2016 - FINAL PROGRAM

Monday, July 11		Tuesday, July 12		Wednesday, July 13		Thursday, July 14		Friday, July 15	
9:00 – 9:30	OPENING	9:00 – 10:00	<b>INVITED SPEAKER</b> M. Moreno	9:00 – 10:00	<b>INVITED SPEAKER</b> F. Messina	9:00 – 10:30	E. Savchenko M. Bazzan E. Friedland V.S. Teodorescu I. Reghioua S. Watanabe	9:00 – 10:30	A. Lushchik M.-F. Barthe L. Vittadello A. Alessi A. Belsky B. Padlyak
9:30 – 10:30	<b>INVITED SPEAKER</b> C. Thiel	10:00 – 10:30	P. Smet F. Moretti	10:00 – 10:30	S. Feofilov M. Peng				
10:30 – 11:00	<b>COFFEE BREAK</b>	10:30 – 11:00	<b>COFFEE BREAK</b>	10:30 – 11:00	<b>COFFEE BREAK</b>	10:30 – 11:00	<b>COFFEE BREAK</b>	10:30 – 11:00	<b>COFFEE BREAK</b>
11:00 – 12:30	C. Stanek G. Watson R. Ledwaba R. Jackson P. Garcia-Fernandez G. Roma	11:00 – 12:30	M. Nikl S. Gridin Z. Lucenicova W. Drozdowski A. Gektin S. Nagorny	11:00 – 12:15	V.S. Nistor M. Stefan M. Alemany A. Vedda I. Kamenskikh	11:00 – 12:30	A. Vasil'ev M.E. Valerio S. Sanna M. Grinberg A. Sontakke T. Lesniewski	11:00 – 11:30	O. Dicks L. Kovacs
12:30 – 14:00	<b>LUNCH BREAK</b>	12:30 – 14:00	<b>LUNCH BREAK</b>	12:15 – 14:30	<b>LUNCH BREAK</b>	12:30 – 14:00	<b>LUNCH BREAK</b>	11:30 – 12:30	<b>INVITED SPEAKER</b> P. Heitjans
14:00 – 15:00	<b>INVITED SPEAKER</b> H. Vrielinck	14:00 – 15:00	<b>INVITED SPEAKER</b> D. Scanlon			14:00 – 15:00	<b>INVITED SPEAKER</b> D. Carpentier	12:30 – 13:00	<b>CLOSING</b>
15:00 – 15:45	F.A. Selim K. Krambrock A. Sarkar	15:00 – 15:30	A. Lucid P. Plantevin	14:30 – 18:00	<b>TOUR IN LYON</b>	15:00 – 15:30	N. Yokota R.M. Montereali		
15:45 – 16:15	<b>COFFEE BREAK</b>	15:30 – 16:00	<b>COFFEE BREAK</b>			15:30 – 16:00	<b>COFFEE BREAK</b>		
16:15 – 17:45	F. Freytag K. Lengyel K. Veenhuizen A. Suchocki S. Arceiz Casas R. Evarestov	16:00 – 17:00	S. Messerschmidt C. Wickleder J. Joos R. Abashev			16:00 – 17:00	Y. Zorenko A. Chadwick G. Dosovitskiy A. Maraloiu		
		17:00 – 17:30	Flash talks for posters			17:00 – 17:30	Flash talks for posters		
		17:30 – 20:00	<b>POSTER SESSION I</b> & TROPICAL PARTY			17:30 – 20:00	<b>POSTER SESSION II</b> & BEER PARTY		
18:00 – 20:30	<b>COCKTAIL</b>			FROM 20:00	DINNER	AT NIGHT	FIREWORKS !		

# DETAILED PROGRAM

## SUNDAY, July 10

17:00 – 21:00	<b>Registration</b>	<b>Hôtel Résidence Odalys Bioparc 64 avenue Rockefeller 69008 Lyon</b>
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18:00 – 21:00	<b>Welcome Party</b>	<b>Hôtel Résidence Odalys Bioparc 64 avenue Rockefeller 69008 Lyon</b>
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## MONDAY, July 11

8:00 – 18:00	<b>Registration</b>	<b>J.F. CIER building 8 Avenue Rockefeller 69008 Lyon</b>
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9:00 – 9:30	<b>OPENING TALK</b>	
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9:30 – 10:30	<b>INVITED SPEAKER</b>	
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Chairman : C. Pedrini

Mo-I-1	C. Thiel	Design and characterization of materials for rare-earth quantum memories
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10:30 – 11:00	<b>COFFEE BREAK</b>	
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11:00 – 12:30	<b>Defects modeling &amp; computational methods</b>	
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Chairman : R. Evarestov

Mo-O-1	C. Stanek	Molecular dynamics simulation of thermal transport in $\text{UO}_2$ with intrinsic defects and fission products
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Mo-O-2	G. Watson	Controlling the localisation of electronic defects using DFT+U with occupation matrix control
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Mo-O-3	R. Ledwaba	Visualization of evolving microstructures in mesoporous and bulk $\text{LiMn}_2\text{O}_4$ Using amorphization and recrystallization technique
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Mo-O-4	R. Jackson	Computer modeling of double doped $\text{SrAl}_2\text{O}_4$ for phosphor applications
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Mo-O-5	P. Garcia-Fernandez	Evidence of a Jahn-Teller impurity in a cubic lattice displaying a compressed geometry
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Mo-O-6	G. Roma	First order Raman intensities associated to point defects in silicon carbide from first principles
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12:30 – 14:00 **LUNCH BREAK**

14:00 – 15:00 **INVITED SPEAKER**

Chairman : R. Jackson

Mo-I-2	H. Vrielinck	Structural properties and transformations of metal-organic frameworks studied using paramagnetic probes
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15:00 – 15:45 **Point & extended defects in bulk wide band-gap systems**

Chairman : R. Jackson

Mo-O-7	F. A. Selim	Hydrogen in insulating oxide $Y_3Al_5O_{12}$ strongly narrows the band gap
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Mo-O-8	K. Krambrock	Identification of Rhenium donor in layered $MoS_2$ samples
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Mo-O-9	A. Sarkar	Positron annihilation spectroscopic characterization of defects in wide band gap oxide semiconductors
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15:45 – 16:15 **COFFEE BREAK**

16:15 – 17:45 **Point & extended defects in bulk wide band-gap systems**

Chairman : C. Stanek

Mo-O-10	F. Freytag	Atomic insight to small, strong-coupling hole polarons in lithium niobate by local probing of OH- bonds
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Mo-O-11	K. Lengyel	Incorporation of rare earth ions in $Li_6Y(BO_3)_3$ single crystals
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Mo-O-12	K. Veenhuizen	Dependence of stoichiometry of lithium niobate nanocrystals on different initial lithium to niobium ratios in the synthesis step
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Mo-O-13	A. Suchocki	Spectroscopic properties of $Y_4Al_2O_9:Ce$ crystals
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Mo-O-14	S. Arceiz Casas	EPR and DFT investigation of Fe and Fe-Ti doping in $LiNbO_3$
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Mo-O-15	R. Evarestov	Ab initio simulations of interstitial oxygen in corundum
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17:45 – 18:00

18:00 – 20:30 **COCKTAIL**

## TUESDAY, JULY 12

9:00 – 10:00 **INVITED SPEAKER**

Chairman : A. Vasil'ev

Tu-I-3	M. Moreno	Off-Centre and Jahn-Teller Instabilities in Doped Insulators
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10:00 – 10h30

**Scintillation, energy transfer & storage, carrier trapping phenomena**

Chairman : A. Vasil'ev

Tu-O-1	P. Smet	Optically stimulated detrapping limiting the storage capacity of persistent phosphors
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Tu-O-2	F. Moretti	Consequences of Ca co-doping in YAlO <sub>3</sub> :Ce scintillating crystals
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10:30 – 11:00

**COFFEE BREAK**

11:00 – 12:30

**Scintillation, energy transfer & storage, carrier trapping phenomena**

Chairman : P. Smet

Tu-O-3	M. Nikl	Optimization of wide band-gap scintillators using variable charge state of fast emitting rare earth dopants
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Tu-O-4	S. Gridin	LaBr <sub>3</sub> with Ce and Sr dopants: picosecond absorption spectroscopy and progress on track modeling
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Tu-O-5	Z. Lucenicova	Delayed recombination in Ce <sup>3+</sup> doped LuAG:Gd,Ga multicomponent garnet scintillators
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Tu-O-6	W. Drozdowski	A deeper insight into LuYAG:Pr scintillator crystals
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Tu-O-7	A. Gektin	Point defect role in Ca co-doped scintillator NaI:Tl
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Tu-O-8	S. Nagorny	The Quenching Factor for alpha particles in ZnSe scintillating bolometers
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12:30 – 14:00

**LUNCH BREAK**

14:00 – 15:00

**INVITED SPEAKER**

Chairman : A. Lushchik

Tu-I-4	D. Scanlon	Defect chemistry of emerging materials for photovoltaics
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15:00 – 15:30

**Phenomena at surfaces & interfaces**

Chairman : A. Lushchik

Tu-O-9	A. Lucid	Molecular dynamics study of samarium and gadolinium doped ceria and their interfaces for solid-oxide fuel-cell applications
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Tu-O-10	P. Plantevin	Improved interface passivation in heterojunction solar cells with ion irradiation
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15:30 – 16:00 **COFFEE BREAK**

16:00 – 17:00 **Luminescence of excitons, impurities & defects**

Chairman : M. Moreno

Tu-O-11	S. Messerschmidt	(Ultra-)fast dynamics of self-trapped excitons in Mg-doped lithium niobate
Tu-O-12	C. Wickleder	Photoluminescence of self-trapped excitons and colour centres in Eu <sup>2+</sup> -activated CsMgX <sub>3</sub> (X = Cl, Br, I)
Tu-O-13	J. Joos	Luminescence of Mn in CaZnOS: from energy levels to applications
Tu-O-14	R. Abashev	Thermoluminescence of anion-deficient corundum and its connection with Ti impurity

17:00 – 17:30 **FLASH TALKS FOR POSTERS**

17:30 – 20:00 **POSTER SESSION I (& TROPICAL PARTY)**

## WEDNESDAY, JULY 13

9:00 – 10:00 **INVITED SPEAKER**

Chairman : S. Nistor

We-I-5	F. Messina	Optical spectroscopy and light-induced generation of point defects in SiO <sub>2</sub> -based materials
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10:00 – 10h30 **Luminescence of excitons, impurities & defects**

Chairman : S. Nistor

We-O-1	S. Feofilov	Impurity ions spectra in garnets solid solutions: disorder, symmetry of centers and lattice deformation
We-O-2	M. Peng	Superbroad NIR luminescence from bismuth doped crystals and glasses

10:30 – 11:00 **COFFEE BREAK**

11:00 – 12:15 **Low dimensional & nano-morphological systems**

Chairman : S. Feofilov

We-O-3	V. S. Nistor	The main role of extended lattice defects in the localization and interaction of Mn <sup>2+</sup> ions in cubic ZnS quantum dots
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We-O-4	M. Stefan	Collective magnetism from aggregated Mn <sup>2+</sup> activating ions in self-assembled cZnS quantum dots at higher doping levels
We-O-5	M. Alemany	Investigation of point defects in HfO <sub>2</sub> using Positron-Annihilation Spectroscopy: Internal Electric Fields impact
We-O-6	A. Vedda	Hafnium dioxide luminescent nanoparticles: structure and emission control through doping and thermal treatments
We-O-7	I. Kamenskikh	Energy transfer and carrier multiplication in silicon nanoparticles embedded in silicon dioxide

12:15 – 14:30 **LUNCH BREAK**

14:30 – 18:00 **TOUR IN LYON**

FROM 20:00 **DINNER** At Bellona Boat

## THURSDAY, JULY 14

9:00 – 10:30 **Radiation induced effects & material damage**

Chairman : V. Dierolf

Th-O-1	E. Savchenko	Radiation-induced defects, energy storage and release in nitrogen solids
Th-O-2	M. Bazzan	Manipulation of high-energy particle beams by channelling and volume reflection in piezoelectric LiNbO <sub>3</sub>
Th-O-3	E. Friedland	Investigation of amorphisation energies of silicon carbide implanted with heavy ions
Th-O-4	V. S. Teodorescu	Nanoscale segregation of Ge nanoparticles in GeSiO and GeTiO amorphous films by RTA and UV laser pulse annealing
Th-O-5	I. Reghioua	Study of point defects in as-drawn and irradiated Ge-doped optical fibers using cathodoluminescence
Th-O-6	S. Watanabe	Optical absorption and properties of emerald

10:30 – 11:00 **COFFEE BREAK**

11:00 – 12:30 **Luminescence of excitons, impurities & defects**

Chairman : M. Nikl

Th-O-7	A. Vasil'ev	Excitation mechanisms in activated CsI scintillators:
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		comparison of $Tl^+$ and $In^+$ dopants
Th-O-8	M. E. Valerio	Luminescence in doped and undoped $CaYAl_3O_7$ produced via the Pechini Method
Th-O-9	S. Sanna	Structural, electronic and optical properties of intrinsic and extrinsic defects in $LiNbO_3$
Th-O-10	M. Grinberg	Location of the $Tb^{3+}$ and $Eu^{3+}$ energy levels in $Y_2O_3$ under high hydrostatic pressure
Th-O-11	A. Sontakke	Novel defects' luminescence based g-YAB phosphors for high CRI white light generation
Th-O-12	T. Lesniewski	Optical properties of $K_2(Si,Ge)F_6:Mn^{4+}$ at ambient conditions and high pressure

**12:30 – 14:00 LUNCH BREAK**

**14:00 – 15:00 INVITED SPEAKER**

Chairman : P. Heitjans

Th-I-6	D. Carpentier	Topological properties of insulators and semi-metals
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**15:00 – 15h30 Application-minded materials & interdisciplinarity**

Chairman : P. Heitjans

Th-O-13	N. Yokota	In situ XAS study during cycling of $Li_2FeSiO_4$ Li ion battery material
Th-O-14	R. M. Montereali	Lithium fluoride thin film detectors for low-energy proton beam mapping by photoluminescence of colour centres

**15:30 – 16:00 COFFEE BREAK**

**16:00 – 17:00 Application-minded materials & interdisciplinarity**

Chairman : G. Ledoux

Th-O-15	Y. Zorenko	Scintillators based on the $Ce^{3+}$ doped single crystalline films of multicomponent garnets: new trends and new challenges
Th-O-16	A. Chadwick	An X-Ray Absorption Study of Ball-Milled Lithium Titanate and Tantalate
Th-O-17	G. Dosovitskiy	Persistent luminescence in powdered and ceramic polycrystalline $Gd_3Al_2Ga_3O_{12}:Ce$
Th-O-18	A. Maraloiu	Using Two Photon Laser Scanning Microscopy to reveal the fate of USPIO nanoparticles in an atherosclerotic murine model

17:00 – 17:30	<b>FLASH TALKS FOR POSTERS</b>	
17:30 – 20:00	<b>POSTER SESSION II (&amp; BEER PARTY)</b>	
AT NIGHT	<b>FIREWORKS</b>	Fired from Notre-Dame-de Fourvière

## FRIDAY, JULY 15

9:00 – 10:30	<b>Radiation induced effects &amp; material damage</b>	
	Chairman : A. Vedda	
Fr-O-1	A. Lushchik	Peculiarities of radiation damage caused by light and heavy ions in wide gap materials
Fr-O-2	M.-F. Barthe	Identification of vacancy defects in UO <sub>2</sub> using Positron Annihilation Spectroscopy: a theoretical and experimental comparison
Fr-O-3	L. Vittadello	Photorefractive direct laser writing
Fr-O-4	A. Alessi	Irradiation temperature effects on the induced point defects in Ge-doped optical fibers.
Fr-O-5	A. Belsky	Creation of transient defects in ionic crystals in regions with high excitation density
Fr-O-6	B. Padlyak	Paramagnetic centers in the irradiated borate glasses
10:30 – 11:00	<b>COFFEE BREAK</b>	
11:00 – 11:30	<b>Point &amp; extended defects in bulk wide band-gap systems</b>	
	Chairman : A. Chadwick	
Fr-O-7	O. Dicks	Electron and hole traps in $\alpha$ -Al <sub>2</sub> O <sub>3</sub>
Fr-O-8	L. Kovacs	OH <sup>-</sup> defects in rare earth ion doped stoichiometric LiNbO <sub>3</sub>
11:30 – 12:30	<b>INVITED SPEAKER</b>	
	Chairman : A. Chadwick	
Fr-I-7	P. Heitjans	Mobile Li <sup>+</sup> and F <sup>-</sup> Ions in Insulating Materials
12:30 – 13:00	<b>CLOSING TALK</b>	



## POSTER SESSION I, Tuesday, July 12

Flash talks for posters : #

Tu-P- 1	R. Montereali	Subsurface Radiation Induced Defects in Lithium Fluoride Nanocrystals	
Tu-P- 2	M. Pfiffer	Characterization of the polishing induced contamination of fused silica optics	#1
Tu-P- 3	A. Aramburu	Key role of internal electric fields in the properties of ionic materials containing transition-metal complexes	
Tu-P- 4	J. García Lastra	Polaronic motion of self-trapped holes in silver halides	#2
Tu-P- 5	A. Gavin	Defect modelling in LaMnO <sub>3</sub> for intermediate temperature solid oxide fuel cell cathodes	#3
Tu-P- 6	R. Jackson	The study of defects in CaYAl <sub>3</sub> O <sub>7</sub> through a static computer modelling approach	
Tu-P- 7	M. Kaviani Baghbadorani	Intrinsic electron trapping in amorphous hafnium oxide	
Tu-P- 8	M. Kaviani Baghbadorani	Hydrogen-induced defects in amorphous hafnium oxide	
Tu-P- 9	K. Lengyel	Defect structures of ODR dopants in LiNbO <sub>3</sub> crystals	
Tu-P- 10	A. Lucid	A polarisable force field for doped lanthanum gallate derived from first principles	
Tu-P- 11	M. Valerio	EXAFS simulations in Zn-doped LiNbO <sub>3</sub> based on defect calculations	
Tu-P- 12	G. Watson	The effect of trivalent cation doping on the structure and reducibility of ceria.	
Tu-P- 13	A. Akilbekov	AFM and TEM study of hillock-like defects induced by swift heavy ions on Al <sub>2</sub> O <sub>3</sub> surface	
Tu-P- 14	A. Akilbekov	Luminescence of ZnWO <sub>4</sub> crystals with injected oxygen	
Tu-P- 15	J. Botsoa	Study of the formation of vacancy defects into 6H-SiC by Positron Annihilation Spectroscopy and Photoluminescence	
Tu-P- 16	N. Cano-Mamani	Optical absorption (AO) and thermoluminescence properties of green tourmaline	
Tu-P- 17	A. Joita	Paramagnetic defects produced by high radiation doses in silicon detector material	#4
Tu-P- 18	K. Krambrock	Radiation-induced green color in natural wet quartz and its relation with the non-bridging oxygen hole center	#5
Tu-P- 19	B. Marczewska	Visualisation of Bragg peak of proton beams in LiF crystals	
Tu-P- 20	B. Marczewska	Influence of thermal treatment and bleaching on PL of LiF crystals with radiation induced color centers	
Tu-P- 21	S. Santos	Radiation effects on microstructure and EPR signal of yttrium oxide rods	
Tu-P- 22	S. Shandarov	Changes in optical absorption induced by sequential exposition to short- and long-wavelength radiation in the BTO:Al crystal	
Tu-P- 23	S. Watanabe	Optical absorption, electronic paramagnetic resonance and luminescence spectroscopic for characterization of monticellite	
Tu-P- 24	S. Watanabe	TL, EPR and Optical Absorption Properties of Yellow Beryl	
Tu-P- 25	S. Gridin	Sensitivity study of transport, rate, and energy deposition parameters in a model of scintillation tracks	

Tu-P-26	K. Hovhannesian	Optical and radioluminescence studies of LuAG:Ce(Pr) with divalent co-dopants	
Tu-P-27	M. Kucera	Improved scintillation properties of co-doped GAGG:Ce,Mg epitaxial garnet films	#6
Tu-P-28	S. Kurosawa	Bandgap Structure and Temperature Dependence of Rare-Earth-Doped La-GPS Scintillator	
Tu-P-29	I. Romet	Recombination luminescence of copper and silver doped $\text{Li}_2\text{B}_4\text{O}_7$ single crystals	
Tu-P-30	N. Shiran	Energy transfer and scintillation properties of $\text{Y}_3(\text{Ga}_x\text{Al}_{1-x})_5\text{O}_{12} : \text{Ce}$ ceramics	
Tu-P-31	A. Vasilyev	Non-uniformity of excitation distribution in the track for modelling scintillation non-proportionality and decay	
Tu-P-32	G. Ren	Research on the Coloration Problems of CsI(Tl) Crystals	
Tu-P-33	E. Coillet	Structural characterization of thin amorphous oxide layers for Gravitational Wave detection	#7
Tu-P-34	M. Naito	Local structure and thermally induced structural evolution in amorphous Nb-Si thin layers	
Tu-P-35	J. Strand	Hole Trapping in Amorphous $\text{HfO}_2$	
Tu-P-36	O. Toma	Excited-state absorption in erbium-doped ceramic langatate	
Tu-P-37	O. Toma	Excited-state absorption in Er-doped partially disordered calcium lithium niobium gallium garnet	
Tu-P-38	L. Vittadello	Diffraction from Fibonacci gratings fabricated in photorefractive $\text{Fe}:\text{LiNbO}_3$	
Tu-P-39	A. Bensalah-Ledoux	$\text{ZnAl}_2\text{O}_4$ powders and films for Ultra-Violet emission	
Tu-P-40	G. Dosovitskiy	$\text{Gd}_3\text{Al}_2\text{Ga}_3\text{O}_{12}:\text{Ce}$ stoichiometry deviation influence on the crystal scintillation properties	
Tu-P-41	L. Li	Red Emission from $\text{Pr}^{3+}$ in $\text{K}_{1-x}\text{Na}_x\text{NbO}_3$ for Persistent Luminescence	
Tu-P-42	E. Mihokova	Surface functionalized Zn(Cd)O:Ga-nanoparticles for X-ray induced photodynamic therapy	#8
Tu-P-43	V. Mykhaylyk	Remote micro-thermometry using scintillation sensors	#9
Tu-P-44	A. Ruotolo	Giant negative magnetoresistance in oxygen-deficient Mn-substituted ZnO	
Tu-P-45	Y. Zorenko	Synthesis and luminescence properties of $\text{Ce}^{3+}$ and $\text{Eu}^{2+}$ doped silicate garnet phosphors for white LED convertors	#10
Tu-P-46	S. Messerschmidt	Carrier self-trapping in iron-doped lithium niobate	
Tu-P-47	G. Laurens	Mechanical stress in nano-size particles	#11
Tu-P-48	S. Biderman	Study of the effect of optical bleaching at selected photon energies on the OA and TL of $\text{LiF}:\text{Mg,Ti}$ (TLD-100).	
Tu-P-49	K. Kamada	Mg co-doping effects on Ce doped $\text{Y}_3(\text{Ga,Al})_5\text{O}_{12}$ scintillator	
Tu-P-50	V. Khanin	Influence of Yb-related traps on afterglow properties of garnet scintillators	
Tu-P-51	A. Luchecko	Optical bleaching in YAP single crystals doped with manganese ions (poster presentation)	
Tu-P-52	I. Reghioua	Evolution of GLPC defects in $\text{O}_2$ -loaded germanosilicate optical fibers: in-situ cathodo-luminescence study	

Tu-P-53	D. Daurenbekov	Modeling of Defect Formation Processes in Na <sub>2</sub> SO <sub>4</sub> Crystal	
Tu-P-54	C. Masedi	Beyond Lithium-Ion Batteries: A Computational Study on Advanced Lithium – Sulphur Battery.	#12
Tu-P-55	M. Matshaba	Amorphisation and Recrystallisation Study of Lithium Intercalation into TiO <sub>2</sub> Nano-Architectures	#13
Tu-P-56	C. Sifi	Ab-initio study of structural properties of Lead Barium sulfide alloys.	

## POSTER SESSION II, Thursday, July 14

Flash talks for posters : #

Th-P- 1	R. Abashev	On real structure of the profiled anion-deficient corundum	
Th-P- 2	H. Asatryan	ESR of $151\text{Eu}^{2+}$ rhombic centers in $\text{Y}_3\text{Al}_5\text{O}_{12}$	
Th-P- 3	H. Asatryan	ODMR in gadolinium-containing garnet crystals via $\text{Ce}^{3+}$ photoluminescence	
Th-P- 4	M. Bazzan	Direct measurement of the Fe-polaron deformation in $\text{Fe}:\text{LiNbO}_3$	#1
Th-P- 5	P. Booker	Ultrafast, mid-infrared spectroscopy of small, strong-coupling polarons and free-carriers in lithium niobate	
Th-P- 6	M. Buryi	EPR study of stable $\text{Eu}^{2+}$ ions and X-ray induced charge traps creation in ceramic $\text{Lu}(\text{Y})_3\text{Al}_5\text{O}_{12}:\text{Eu},\text{Mg}$	
Th-P- 7	O. Dicks	Spectroscopic properties of oxygen vacancies in $\text{LaAlO}_3$	
Th-P- 8	A. Gavin	Investigation of $\text{LaCrO}_3$ for development of a p-type transparent conducting oxide	#2
Th-P- 9	N. Kozlova	Point defects and phenomenon of dichroism in the lanthanum-gallium silicate group crystals	
Th-P- 10	C. Laplante	Defect evolution in irradiated optical fibers	
Th-P- 11	M. Oda	First-principles calculation of electronic structures and phonon modes at a Ga vacancy in GaN	#3
Th-P- 12	A. Sontakke	Localized point defects in amorphous hosts and its influence on quantum yield of $\text{Ln}^{3+}$ luminescence	
Th-P- 13	M. Alemany	Characterization of point defects in oxygen sub- and over-stoichiometric $\text{HfO}_2$ by Electron-Energy Loss Spectroscopy	
Th-P- 14	L. Nistor	Structure and localization of aggregated $\text{Mn}^{2+}$ ions as a separate phase in the mesoporous assembly of $\text{cZnS}:\text{Mn}$ QDs	
Th-P- 15	A. Belsky	Luminescence of ZnO crystal and nanoparticles excited by femtosecond IR, UV and VUV laser pulses	
Th-P- 16	D. Avram	Role of defects in shaping the emission of Ln doped $\text{CeO}_2$	
Th-P- 17	A. Baran	High pressure and time resolved luminescence spectra of $\text{Ba}_2\text{K}(\text{PO}_3)_5$ doped with $\text{Eu}^{2+}$ and $\text{Eu}^{3+}$	
Th-P- 18	N. Cano-Mamani	Thermoluminescence and Electron Paramagnetic Resonance of Marambaia Topaz	
Th-P- 19	I. Carrasco Ruiz	Tunable emission from silico-carnotite type double silicates doped with $\text{Tb}^{3+}$ and $\text{Eu}^{3+}$	#4
Th-P- 20	G. Corradi	EPR spectroscopy of $\text{Er}^{3+}$ in lithium yttrium borate (LYB) single crystals	
Th-P- 21	S. Firstov	IR luminescent centers in gamma-irradiated Bi-doped KCl and $\text{SrF}_2$ crystals	
Th-P- 22	B. Gimenez Fernandes	Thermoluminescence (TL) Properties of glass from natural diopside and of Synthetic Diopside Glass	
Th-P- 23	B. Gimenez Fernandes	Optical absorption and electron paramagnetic resonance of natural and synthetic diopside glass	
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