

**Poster session I: Monday 13 September 15:40 –
17:00**

THEORY

PS1-1	157	Density functional calculations of hyperfine parameters in manganites	GONÇALVES, J. N.
PS1-2	4	Theoretical calculations on the Electric Field Gradient in HfO ₂ :Cd and ZrO ₂ :Cd	TAYLOR, Marcela;
PS1-3	31	EFG calculations by the FPLO code	KOCH, Katrin
PS1-4	71	Electronic and structural properties of ¹⁸¹ Ta in anatase and rutile: Experimental study and ab initio calculations	DAS, P
PS1-5	107	The EFG at sp-impurities in Zn and Cd - a new (final?) look	HAAS, Heinz
PS1-6	118	AB-INITIO HYPERFINE FIELDS IN Fe-Cr	SODRE, Ney
PS1-7	119	Ab initio study of the electronic structure and the EFG at Ta sites in HfO ₂ :Ta y ZrO ₂ :Ta.	TAYLOR, Marcela Andrea
PS1-8	133	Ab initio calculations and PAC study of ¹¹¹ In-doped (Hf/Zr) ₃ Al ₂ and (Hf/Zr) ₄ Al ₃ mixed compounds. EFG's and site preference	ERRICO, Leonardo;
PS1-9	129	Electric Field Gradient and Electronic Properties of Crown Thioether Compounds	NASCIMENTO, Rafael Rodrigues

**MAGNETISM AND MAGNETIC MATERIALS: BULK
AND THIN FILMS**

PS1-10	8	Investigation of hyperfine interactions in GdCrO ₃ perovskite oxide using PAC spectroscopy	SAXENA, Rajendra
PS1-11	0	Mössbauer studies of the magnetic quasicrystal Zn ₇₇ Fe ₇ Sc ₁₆	NOWIK, Israel
PS1-12	13	Mössbauer and magnetic studies of (Mn, Zn) _x Co _{1-x} Fe ₂ O ₄ nanoferrites synthesized by using the citrate precursor preparation technique	MSOMI, Justice
PS1-13	19	Mössbauer spectroscopic study of the kinetics of sigma-phase formation in cold-rolled Fe-V alloys	DUBIEL, Stanislaw
PS1-14	23	Mössbauer and electrical studies of Mn _x Co _{1-x} Fe ₂ O ₄ compounds prepared via glycothermal route	ABDALLAH, Hafiz

PS1-15	24	Advances in a Bulk and Surface Properties Studies by using Mossbauer spectroscopy	KAMZIN, Alexander
PS1-16	33	Magnetic hyperfine field in the intermetallic compounds PrRh ₂ Si ₂ and GdRh ₂ Si ₂ measured with PAC technique using ¹⁴⁰ Ce as probe nuclei	CABRERA-PASCA, Gabriel
PS1-17	41	Perturbed Angular Correlations Investigations on Magneto-Electric Manganites	MELO MENDONÇA, Tânia
PS1-18	44	Magnetic-Electronic Pressure Responase of Ilmenite (FeTiO ₃)	SIBANDA, Wisdom Nkosilathi
PS1-19	45	Spin and Orbital Order in FeCr ₂ S ₄	LITTERST, Jochen
PS1-20	62	Mössbauer Spectroscopy of the New Iron Oxide Fe ₃ B ₇ O ₁₃ (OH)	NAKAMURA, Shin
PS1-21	64	Magnetic and electrical transport properties of Ce/Ca substituted perovskite oxides	SHARMA, M. P.
PS1-22	79	Studies of GdZn compound magnetic properties using PAC spectroscopy with ¹⁴⁰ Ce and ¹¹¹ Cd as probe nuclei	SANTOS, Brianna
PS1-23	93	DyNi ₂ Mn - Magnetisation and Mössbauer Spectroscopy	CAMPBELL, Stewart
PS1-24	109	Magnetic Hyperfine Interaction of ⁵⁹ Fe in Nickel	MUTO, Suguru
PS1-25	116	Magnetolectric AgCrO ₂ : A new local insight given by PAC	DE PINHO OLIVEIRA, Goncalo
PS1-26	121	Investigations on FeSb ₂ by high field ⁵⁷ Fe Mössbauer spectroscopy	REISSNER, Michael
PS1-27	123	Structural, electronic and magnetic properties of Ho substituted BiFeO ₃ as a function of temperature	NAIDOO, Deena
PS1-28	125	A high temperature NMR study in optimally doped manganites	PANOPOULOS, Nikos
PS1-29	126	Incommensurate modulated spin order and NMR wipeout effect in electron-doped manganites probed by ¹³⁹ La NMR	KOUMOULIS, Dimitrios
PS1-30	144	Magnetism in CaFe ₂ As ₂ and Phase Separation in Superconducting Ba _{0.5} K _{0.5} Fe ₂ As ₂ and Sr _{0.5} Na _{0.5} Fe ₂ As ₂ Single Crystals: A Mössbauer Study	SANCHEZ, Dalber
PS1-31	153	Magnetic and Electric Properties of Cadmium Films Containing Nanometer Size Clusters of Iron	TRUJILLO, Wiliam
PS1-32	156	Hyperfine local probe study of alkaline-earth manganites BaMnO ₃ and SrMnO ₃	GONÇALVES, J. N.
PS1-33	161	Mössbauer and XPS studies of (Mn, Zn) _x Co _{1-x} Fe ₂ O ₄ ferrites	DOLO, J. J.
PS1-34	166	Tin, Manganese doped chromium iron oxides of composition alpha-Sn _{0.2} Cr _{1.8-x} Fe _x O ₃ and alpha-Mn _{0.2} Cr _{1.8-x} Fe _x O ₃	KALENGAY, Mbela
PS1-35	77	Paramagnetism in Mn/Fe implanted ZnO	GUNNLAUGSSON, Haraldur
PS1-36	40	Absence of room temperature ferromagnetism in transition metal doped ZnO nanocrystalline powders from PAC spectroscopy	DOGRA, Rakesh
PS1-37	52	X-ray absorption and magnetic circular dichroism characterizations of Mo _{1-x} Fe _x O ₂ (x = 0 - 0.05) thin films grown by pulsed laser ablation	THAKUR, Pardeep Kumar
PS1-38	29	Features of Structural Transformations in La _{1-x} CaxMn _{0.98} Fe _{0.02} O _{3+?} (x = 0.05 - 0.50)	SEDYKH, Vera

PS1-39	17	Experimental and theoretical study of the γ -phase in Fe-Cr and Fe-V alloys	CIESLAK, Jakub
PS1-40	141	Detection of sub-lattice magnetism in sigma-phase Fe-V compounds by zero-field NMR	DUBIEL, Stanislaw M.

Poster session II Tuesday 14 Sept

SEMICONDUCTORS, METALS AND INSULATORS

PS2-1	26	Search for ferromagnetic ordering in Pd doped wide band gap semiconductors GaN and ZnO	KESSLER, Patrick
PS2-2	28	Evidence of defect pairing for Pd-atoms in Germanium	TIMMERS, Heiko
PS2-3	42	Oxygen ordering in the HgBa ₂ CaCu ₂ O ₆ + δ high-TC superconductor	MELO MENDONÇA, Tania
PS2-4	53	Perturbed gamma-gamma angular correlation studies of indium containing 211-MAX phases	JUERGENS, Daniel
PS2-5	55	Perturbed gamma-gamma angular correlation studies of indium free 211-MAX phases	JUERGENS, Daniel
PS2-6	61	Experimental and ab initio study of Ta-doped ZnO semiconductor	MUÑOZ, Emiliano Luis; Mr. RICHARD, Diego
PS2-7	66	An In-defect complex as a possible explanation for high luminous efficacy of InGaN and AlInN based devices	KESSLER, Patrick
PS2-8	68	Precise calculation of semiconductor band gaps by means of the LDA-1/2 method	FERREIRA, Luiz
PS2-9	69	Study of annealing behavior of HfO ₂ fiber by hyperfine interaction technique.	BANERJEE, D
PS2-10	70	Zr-doped Rutile TiO ₂ : A Quadrupole Interaction Study	BANERJEE, D
PS2-11	73	Search for "After-Effects" in Cd-doped ZnO semiconductor: PAC experiments supported by ab initio results	MUÑOZ, Emiliano Luis
PS2-12	78	APW+lo and TDPAC study of the Electric-Field Gradient at the cation sites of the (44Ti(EG)?)44Sc-doped Sc ₂ O ₃ Semiconductor	RICHARD, Diego; Mr. MUÑOZ, Emiliano Luis
PS2-13	81	Electronic and structural properties of the γ -Fe ₂ O ₃ :Ta semiconductor. Experimental EFG determination and ab initio calculations.	DARRIBA, Germán Nicolás
PS2-14	82	Experimental and ab initio study of the EFG at donor impurities in the Cr ₂ O ₃ :Ta semiconductor.	DARRIBA, Germán Nicolás
PS2-15	94	Observation of iron impurities diffusion in silicon under bending stress by Mössbauer spectroscopy	SUZUKI, Kunifumi

PS2-16	100	Observation of long lived Fe ³⁺ paramagnetic states in ZnO following the implantation with non-3d elements	NAIDOO, Deena
PS2-17	104	TDPAC study of the phase transitions in PbTi _{1-x} Hf _x O ₃	ALONSO, Roberto
PS2-18	115	Fitting TDPAC Spectra with Stochastic Models: PolyPacFit	ZACATE, Matthew
PS2-19	117	Fluctuating Hyperfine Interactions: Computational Implementation	EVENSON, William; ZACATE, Matthew
PS2-20	139	Study of hyperfine interactions in CeO ₂ nanoparticle by PAC spectroscopy using ¹¹¹ Cd	COSTA, Messias
PS2-21	140	First-principles study of magnetic hyperfine field at Cd probe in Co-doped ZnO semiconductor	PEREIRA, Luciano
PS2-22	142	Electric quadrupole interactions in nano-structured SnO ₂ as measured with PAC spectroscopy	RAMOS, Juliana
PS2-23	143	Study of the electronic structure and electric field gradient at Cd probe in Co-doped ZnO matrix by first principles calculations	PEREIRA, Luciano
PS2-24	148	TDPAC study of a solid-state reaction doping process of ¹⁸¹ Hf(? ¹⁸¹ Ta) impurities in the Ho ₂ O ₃ semiconductor	RICHARD, Diego
PS2-25	160	PAC study of the Si-HfO ₂ system subjected to high energy ball milling	CHAIN, Cecilia Y.
PS2-26	162	Thermal Evolution of Short Range Order in Cu-Hf-Based Amorphous Alloys	DAMONTE, Laura C.
PS2-27	164	Dimensionless Coordinates for Simulations and Theory of Hyperfine Interactions in Materials	EVENSON, William
PS2-28	165	DEFECTS STUDIES IN PURE AND DOPED In ₂ O ₃ SINGLE CRYSTALS BY PAC	QUILLE RAMOS, Ruben
PS2-29	60	Hyperfine parameters of Fe atoms in superconducting FeSe as function of temperature, pressure and magnetic field.	KSENOFONTOV, Vadim
PS2-30	12	Beta-NMR measurement of Cu-58 in Si	MIHARA, Mototsugu
PS2-31	32	Temperature dependence of the hyperfine fields of ¹¹¹ In in sapphire (Al ₂ O ₃) single crystals	STEFFENS, Michael
PS2-32	84	Nuclear electric quadrupole interactions of ¹¹¹ Cd in the heavy-fermion compound CeCoIn ₅	FORKER, Manfred

NEW DIRECTIONS, NEW DEVELOPMENTS IN METHODOLOGY

PS2-33	15	The Concept of Trajectories in the Data Analysis of Non-axially Symmetric Nuclear Quadrupole Interactions	BUTZ, Tilman
PS2-34	16	A User-friendly Fully Digital TDPAC-Spectrometer	BUTZ, Tilman

PS2-35	21	Methodology of Quantitative Analysis in Mossbauer Spectroscopy	IRKAEV, Sobir
PS2-36	57	Lattice location of beryllium and boron, measured by thermal-neutron-induced emission channeling measurements	KöSTER, Ulli
PS2-37	112	Advantages of resonant detecting in hyperfine structure investigation by Mossbauer spectroscopy	PANCHUK, Vitaly
PS2-38	152	POLAREX : Study of polarized nuclei - first measurement	GAULARD, Carole
PS2-39	2	Air pollution studied by Mossbauer spectroscopy and synchrotron	ZHANG, Guilin
PS2-40	101	⁵⁷ Mn Implantation Mössbauer Spectroscopy of γ -Al ₂ O ₃ by Anticoincidence Method	KOBAYASHI, Yoshio
PS2-41	92	Kramers-degenerated Spin Systems ^{13}C in Diamond for Quantum Magnetometry: Spin-Hamiltonian and Quantum Chemistry Analysis	NIZOVTSEV, Alexander

Poster session III Thursday 16 Sept

BIOLOGY, CHEMISTRY, MEDICINE, ARCHAEOLOGY, MINERALOGY

PS3-1	54	H/D Isotope Effect of ¹ H MAS NMR Spectra and ⁷⁹ Br NQR Frequencies in Piperidinium and Pyrrolidinium p-Bromobenzoate	HONDA, Hisashi
PS3-2	56	Variations of ⁵⁷ Fe Hyperfine Parameters in Medicaments Containing Ferrous Fumarate and Ferrous Sulfate	OSHTRAKH, Michael
PS3-3	58	Measurements in DNA molecules using Perturbed Angular Correlation Spectroscopy	SILVA, Andréia
PS3-4	80	⁵⁷ Fe Quadrupole Splitting and Isomer Shift in Various Oxyhemoglobins: Study Using Mössbauer Spectroscopy	OSHTRAKH, Michael
PS3-5	91	Quantitative determination of phase transformations of the Tridymite-like FePO ₄ catalyst pre and post oxidative dehydrogenation reactions to form Alkyl Methacrylates	KHAN, Faiza
PS3-6	113	Chemical states of ⁵⁷ Fe in rock salt type crystals arising from ⁵⁷ Mn	KUBO, Kenya
PS3-7	120	Reduction of Amorphous Fe(III)-hydroxide by the Binary Microbial Culture, Mössbauer Study	CHISTYAKOVA, Nataliya
PS3-8	127	Electric Field Gradient and Electronic Properties of Crown Thioether Compounds	NASCIMENTO, Rafael Rodrigues
PS3-9	131	Beta-NMR as a novel technique using radioactive beams for biophysical studies	STACHURA, Monika
PS3-10	136	Ab-initio study of copper complexes	GONCALVES, Marcos
PS3-11	147	First Principles Electronic Structure Investigation of Order of Singlet and Triplet States of	BADU, S. R.

		Oxyhemoglobin and ^{57}mFe Nuclear Quadrupole Interactions	
PS3-12	159	Study of hafnium sodium salts of DTPA using PAC Spectroscopy	CHAIN, Cecilia Yamil
PS3-13	34	Negative thermal expansion and pressure induced amorphization in Zirconium tungstate as studied by ^{181}Ta TDPAC	RAMANUJAM, Govindaraj
PS3-14	87	Structural Phase Transitions in a [Chloranilic Acid]-[2-Pyrrolidone] (1:2) Molecular Complex with Hydrogen-Bond Networks	MORIKAWA, Shota
PS3-15	135	Mössbauer characterisation of Copper ferrite as a model system for the Fischer-Tropsch synthesis	CHONCO, Zandile;
PS3-16	74	^{57}Fe Hyperfine Interactions in M1 and M2 Sites of Olivine from Omolon Meteorite: Study Using Mössbauer Spectroscopy	PATRUSHEVA, Daria
PS3-17	85	^{14}N NQR study of selected 1,4-benzoquinonedioximes	SINGH, Nadia
PS3-18	11	SPECTROSCOPIC AND MINERAL MAGNETIC STUDIES ON SOME ANCIENT POTTERY SAMPLES	RAMDOSS, Venkatachalapathy
PS3-19	49	Mössbauer Spectroscopic and Mineral Magnetic studies on Archaeological Potteries from Tamilnadu, India	RAMDOSS, Venkatachalapathy
PS3-20	10	Application of Mossbauer spectroscopy in investigation of wall rock alteration at uranium deposit	LIN, Jun

LATTICE DYNAMICS, ION-SOLID INTERACTIONS

PS3-21	14	Debye temperature of sigma-phase Fe-V alloys	DUBIEL, Stanislaw
PS3-22	48	Lattice Location and Diffusion of Interstitial Fe in MgO	MØLHOLT, Torben Esmann
PS3-23	72	Lattice sites of Fe in Al_2O_3 following implantation of ^{57}Mn	GUNNLAUGSSON, Haraldur
PS3-24	96	Mössbauer study of ^{57}Fe in GaAs and GaP following $^{57}\text{Mn}^+$ implantation	MASENDA, Hilary

SURFACES, INTERFACES, THIN FILMS, NANOSTRUCTURES

PS3-25	22	Investigation of Nanosized Magnetic Materials by SEDM Technique	SEMENOV, Valentin
PS3-26	37	Size effects on local magnetism of single Fe impurity in nano-crystalline noble metals: A TDPAD investigation	MISHRA, S.N.

PS3-27	38	Zr/Hf/Zr nanostructures studied by perturbed angular correlations	LOPES, Armandina M.
PS3-28	39	Characterization of nanostructured HfO ₂ films using Perturbed Angular Correlation (PAC) technique	DE MORAES CAVALCANTE, Fabio Henrique
PS3-29	65	Temperature dependent studies of Zinc nanoferrite synthesized by spray pyrolysis	MATHEW, Jacob; JACOB, Jess
PS3-30	75	Electric field gradients in nanoparticles of HfAl ₂ and HfAl ₃ intermetallic compounds	KULINSKA, Agnieszka
PS3-31	89	Laser Deposition of Iron on Graphite Substrates	YAMADA, Yasuhiro
PS3-32	134	Investigation of hyperfine interaction in the nanostructured HfO ₂ by PAC spectroscopy	ROSSETTO, Daniel
PS3-33	154	Study of nanoconfigurations in Zircon-Mullite composites using Perturbed Angular Correlations	CHAIN, Cecilia Yamil
PS3-34	158	Synthesis and characterization of nanoparticles of cobalt and nickel ferrites dispersed in mesoporous silicon oxide	BRAGA, Tiago;
PS3-35	163	Mossbauer spectroscopy and neutron diffraction study of the mechanosynthesis of nanocrystalline MgFe ₂ O ₄	SEPELAK, V.
PS3-36	110	Room temperature ferromagnetism in MWCNTs synthesized by chemical vapor deposition technique	GAUTAM, Sanjeev

ATOMS AND IONS

PS3-37	145	Test of Variational Methods for Studying Hyperfine Interactions of Molecular and Solid State Systems by Application to Atomic Systems	PINK, R. H.
--------	-----	---	-------------

RESONANCE METHODS

PS3-38	5	Low Frequency Spin Echo in Multiple Pulse NQR Spin Locking	KIBRIK, Gregory
PS3-39	6	Phase transition and proton exchange in 1,3-diazinium hydrogen chloranilate monohydrate	ASAJI, Tetsuo
PS3-40	50	¹²⁷ I NQR and ¹ H NMR Studies of 4-Aminopyridinium Tetraiodoantimonate(III); Molecular Motion and Phase Transition	TERAO, Hiromitsu
PS3-41	83	Two and three frequency multipulse sequence for NQR of N-14 nuclei.	MOZZHUKHIN, Georgy
PS3-42	102	³⁵ Cl NQR in glassy crystal, 2,5-dichlorothiophene	FUJIMORI, Hiroki;

PS3-43	111	^7Li quadrupole-perturbed NMR observation of biased Li-ion ordering in the paraelectric phase of weakly substitutionally disordered $\text{K}_{1-x}\text{Li}_x\text{TaO}_3$	ZALAR, Boztjan
PS3-44	149	The cross-correlation effects in relaxation of quadrupolar nuclei in the multipolar spin systems	KUPRIYANOVA, Galina
PS3-45	105	Br NQR relaxation and successive phase transitions of $\text{CH}_3\text{NH}_3\text{HgBr}_3$	NIKI, Haruo

NUCLEAR MOMENTS, NUCLEAR POLARIZATION, NUCLEAR MODELS, FUNDAMENTAL INTERACTIONS

PS3-46	103	Magnetic Moment of Isomeric States in ^{175}Ta	KUMAR, Vivek
PS3-47	106	The quadrupole moments of Zn and Cd isotopes - an update	HAAS, Heinz
PS3-48	122	Magnetic Moment of the $3/2^+$ State in ^{165}Ho	TANIGAKI, Minoru
PS3-49	99	Electric dipole moment search in ^{129}Xe atom with an optical-coupling nuclear spin oscillator	ASAHI, Koichiro
PS3-50	138	Polarization Creation in Proton-Rich ^{28}P via Charge Exchange Reactions and Measurement of Its Electric Quadrupole Moment	MATSUTA, Kensaku
PS3-51	88	The nuclear quadrupole moment of the 245 keV excited state of ^{111}Cd	ERRICO, Leonardo Antonio;
		LATE RECEIVED ABSTRACTS	
PS3-52	181	First Principles Cluster Study of Electronic Structures, Locations and Hyperfine Interactions of Isolated Atoms and Ions in Silicon	PINK, R.H.
PS3-53	180	First Principles Study of Nuclear Quadrupole Interactions in Single and Double Chain DNA and Solid Nucleobases	BADU, S.R.
PS3-54	182	First Principles Study of Muonium Trapping and Associated Magnetic Hyperfine Interactions in Nucleobases in Single and Double Chain DNA and Solid Nucleobases	BADU, S.R.