

Poster Numbers:

Poster number indicates Topic, Sub-topic and serial number, for example :

P01.01.01 → Topic 01. *Instrumentation and Experimental Techniques* / Sub-Topic 01. *Conventional Sources of X-rays* / Serial Number within the main topic.

Poster Presentation**26-27 August****Topics and Sub-topics****04 Crystallography of Biological Macromolecules**

3. Metallo-Enzymes
11. Proteins of the Immune System
12. Receptor and Signal Transduction Proteins
13. Viruses and Viral Proteins
16. Multidomain Proteins
17. Structural Motifs
18. Organelles
22. Structural Genomics
24. Water and Other Solvent Structures in Macromolecules
25. Hot Macromolecular Structures

08 Structure/Property Relationships

3. Dynamic Properties in Molecular Crystals
4. Solid State Reactions
5. Structural Thermodynamics and Kinetic Aspects

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6. Phase Transitions
7. Analysis of Atomic Displacement Parameters
8. Intermolecular Interactions
9. Structure and Chemical Reactivity
12. Time Resolved *in situ* Reactions
13. Hydrogen Bonding Studies

10 Inorganic Crystallography and Geosciences

1. General Geosciences
2. Systematics of Inorganic Compounds
3. Systematics in Geosciences
4. High Pressure and High Temperature Studies
5. Minerals: Characterization Methods and Structures
6. Zeolites (Natural and Synthetic)
7. Exotic Molecules

11 Crystallography in Material Science

1. Superconducting and Semi-Conducting Materials
3. Giant Magnetoresistance Materials
6. Ceramics, Glasses and Amorphous Materials
7. Aperiodic and Incommensurate Structures
10. Nonlinear Optical and Electronic Materials
11. Perovskite Materials
12. Ferroic and Ferroelectric Structures

12 Surfaces, Interfaces, Liquids and Thin Films

1. Surface and Interface Crystallography by X-ray and Neutron Diffraction
2. Surfaces and Catalysis

3. Dynamic Diffraction Methods
4. X-ray Reflectivity: Instrumentation and Applications
5. Neutron Reflectometry: Techniques and Applications
6. Recent Liquid Structure Determination
7. Small Angle Scattering
8. Diffuse Scattering
9. Interfacial Structures
10. Micelles
11. Thin Films and Multilayers
12. Magnetic and Conducting Properties of Thin Films

13 Fibre Diffraction

1. Polymers: Synthetic Fibres
2. Structure Determination of Fibres
3. Biological Fibre Diffraction
4. Non-Periodic and Disordered Fibres

14 Charge, Spin and Momentum Density

1. Multipole and Other Modelling Methods
2. Software Developments
3. Applications of Synchrotron Data
4. Maximum Entropy Applications
5. Experimental Methods and Techniques
6. Topological Analyses
7. Molecular and Crystal Properties from Charge Densities
8. Magnetization and Spin Densities
9. New Frontiers

17 Characterization of Defects, Microstructures and Textures

1. Techniques, Theory and Instrumentation
2. Electron Microscopy
3. X-ray Topography
4. Diffraction
5. STM and AFM Microscopy
6. Other Techniques Including Polarized Light and Infrared Studies
7. Cathodo and Photo Luminescence

18 Electron Microscopy

1. Applications to Macromolecules
2. Cryo-Microscopy
3. New Techniques and New Instrumentation
4. Applications

19 Electron Diffraction

1. New Techniques and New Instrumentation
2. High Resolution Results
3. Other Applications and Advances

20 Non-Ambient Conditions

1. High Pressure Crystallography I: Extremes of Temperature and Pressure
2. High Pressure Crystallography II: Physical Properties Under Pressure
3. High Pressure Crystallography III: Phase Transitions and High Pressure

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4. High Pressure Crystallography IV: Data Acquisition and Analysis
5. High Pressure Crystallography V: Biological and Soft Matter under Pressure
6. High Pressure Crystallography VI: New Frontiers
7. High Temperature Crystallography: Instrumentation, Techniques and Applications
8. Low Temperature Crystallography: Instrumentation, Techniques and Applications
9. Phase Transitions I: Characterization and Applications
10. Phase Transitions II: Magnetic and Structural Identification
11. Applications of Light and Laser Irradiation
12. Crystallography of Excited States

26 Crystallographic Teaching

1. Changes in Teaching Methods for the Future
2. Maintaining Standards Despite Automation
3. Cheap Computer Programs for Developing Countries
4. Preparation for Publication; CIF Files: How Much?
5. Crystallography on the World Wide Web

28 Art, Cultural Heritage and Crystallography

1. Art, Cultural Heritage and Crystallography
2. Crystallography and Art

29 Other Topics

04. CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES

P04.03.177(C286) | A. P. McGrath: The structure of human diamine oxidase

P04.03.178(C286) | R. D. Hoefft: A study of protocatechuate 3,4-dioxygenase mutants and substrate interactions

P04.03.179(C286) | K. Nishikawa: Structural study of H₂O₂ reductase, rubperoxin

P04.03.180(C287) | K. Sakurai: Roles of heme-6-propionate side chain in monooxygenase cytochrome P450cam

P04.03.181(C287) | M. Unno: The crystal structure of heme oxygenase catalytic intermediate unravel the enzyme mechanism

P04.03.182(C287) | M. Mochizuki: X-ray crystal structural analysis of cyanide binding cytochrome *c* oxidase

P04.03.183(C288) | K. Hashimoto: Delay time-resolved X-ray crystallographic analysis of reaction mechanism of nitrile hydratase

P04.03.184(C288) | S. Yoshikawa: X-ray structure of carbon monoxide at copper site of the dinuclear site of cytochrome *c* oxidase

P04.03.185(C288) | K. Muramoto: X-ray structural analysis of Zinc/Cadmium inhibitory site in bovine heart cytochrome *c* oxidase

P04.03.186(C289) | K. Shinzawa-Itoh: Structural analysis for lipid/protein interactions in bovine heart cytochrome *c* oxidase

P04.03.187(C289) | M. Nojiri: Inter- and intra-molecular complex structures of Cu-containing nitrite reductase with cytochrome *c*

P04.03.188(C289) | H. Sugimoto: Crystal structure of cytochrome P450 105A1 in complex with 1 α ,25-dihydroxyvitamin D3

P04.03.189(C290) | A. Teh: Cu/Zn superoxide dismutase structure of the heavy-metal-tolerant *Cryptococcus liquefaciens* strain N6

P04.03.190(C290) | A. Yamamura: Crystal structure of TTHA1429 from *Thermus thermophilus* HB8

P04.03.191(C290) | M. E. Murphy: Metalloporphyrin binding to the NEAT domain of IsdA

P04.03.192(C291) | N. Muraki: Structure of protochlorophyllide reductase reveals a mechanism for greening in the dark

P04.03.193(C291) | A. Merlino: Structure, stability and flexibility of a psychrophilic iron superoxide dismutase

P04.03.194(C291) | D. Hira: X-ray structures of redox partner proteins for *Hyphomicrobium* Cu-containing nitrite reductase

P04.03.195(C291) | Y. Yasutake: Structure of vitamin D₃ hydroxylase, a novel cytochrome P450 from *Pseudonocardia autotrophica*

P04.03.196(C292) | F. Kerff: Structure of the *E. coli* amidase AmiD and implications for the enzymatic mechanism of related enzymes

P04.03.197(C292) | S. Watanabe: Crystal structures of [NiFe] hydrogenase maturation proteins: HypC, HypD and HypE

P04.03.198(C293) | W. Lee: Ruffling of metalloporphyrins bound to IsdG and IsdI, two heme degrading enzymes

P04.03.199(C293) | Y. Umena: Crystal structural analysis of photosystem II with the novel method to reduce X-ray radiation damage

P04.03.200(C293) | K. Wada: Biosynthesis of Fe-S clusters by SUF system: implications from crystal structure of SufCD complex

P04.03.201(C294) | K. Fukuyama: The asymmetric architecture of 2Fe-2S IscU, a scaffold protein for iron-sulfur cluster biosynthesis

P04.03.202(C294) | I. Ascone: Crystallographic study of Cu, Zn superoxide dismutase in extreme pressure conditions

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P04.03.203(C294) | J. Lee: Insights into iron transport in *Helicobacter pylori* ferritin

P04.03.204(C294) | L. Lo Leggio: Structure of a member of glycoside hydrolase family 61: Are these true glycoside hydrolases?

P04.03.205(C295) | S. Nagano: Crystal structure and mechanism of cytochrome P450 StaP that constructs the indolocarbazole core

P04.03.206(C295) | D. Traore: Bacsu PerR : Metal binding sites and unambiguous highlights of 2-oxo-His in the oxidized protein

P04.11.267(C314) | P. Sharma: Crystal structure of the peptidoglycan recognition protein at 1.8 Å resolution

P04.11.268(C314) | J. Reiser: Structural insights into an affinity-based selection of virus-specific public T cell receptors

P04.11.269(C315) | Y. Mishima: Crystal structure of a pattern recognition protein required for fungal detection in *Drosophila*

P04.11.270(C315) | J. Lubkowski: Structure-function correlations in vertebrate defensins

P04.11.271(C315) | L. Deng: Molecular recognition of the natural killer cell receptors 2B4 and Ly49 with their respect ligands

P04.11.272(C316) | S. Gras: Structure of the subdominant TCR in complex with HLA-B8FLRGRAYGL

P04.11.273(C316) | S. Dai: Crossreactive T cells spotlight the germline rules for TCR interactions with MHC molecules

P04.11.274(C316) | H. Mikolajek: Ligand binding to pentraxins

P04.11.275(C317) | S. Rahighi: Structure determination of NEMO(NF- κ B essential modulator) UBAN domain

P04.11.276(C317) | R. M. Mc Mahon: A structural basis for MHC class I associated susceptibility to multiple sclerosis

P04.11.277(C317) | M. Chirifu: Crystal structure of the human IL-15/IL-15R α complex

P04.11.278(C317) | D. A. Critton: Hematopoietic protein tyrosine phosphatase (HePTP): Molecular determinants of substrate specificity

P04.12.279(C318) | D. Lee: Structure of *Escherichia coli* tyrosine kinase Etk reveals novel activation mechanism

P04.12.280(C318) | H. Komori: Crystallographic analysis of response regulator protein from *Desulfovibrio vulgaris* Hildenborough

P04.12.281(C318) | T. Kinoshita: Crystal structure of human ERK1 kinase mono-phosphorylated at Tyr204

P04.12.282(C319) | M. Tegoni: Pheromone binding and release by honey bee PBP is driven by a pH induced domain swapping

P04.12.283(C319) | N. Shibata: Structural basis of dynamic polymerization of DIX domains: A revised model of Wnt signaling

P04.12.284(C319) | J. Marek: Structure of CKII_{RD}, the receiver domain of the histidine kinase CKII from *Arabidopsis thaliana*

P04.12.285(C320) | S. Terawaki: Structural basis of type-II membrane protein binding by ERM proteins

P04.12.286(C320) | H. Song: Crystal structure of PIX C-terminus domain and Shank PDZ complex

P04.12.287(C320) | H. Yokoyama: A novel trimeric and coiled-coil structure of a core domain of stomatin from *Pyrococcus horikoshii*

P04.12.288(C321) | N. Yasui: Crystal structure of reelin in complex with its receptor

P04.12.289(C321) | N. Miyano: Characterization and crystallographic analysis of human Lyn tyrosine kinase domain

P04.12.290(C321) | X. Yang: Preliminary X-ray analysis of human Frk kinase domain

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P04.12.291(C321) | H. Tanaka: Crystal structure of synaptic adhesion protein neuexin and neuroligin

P04.12.292(C322) | S. Nakae: Preliminary X-ray analysis of MEK1/ERK2 complex

P04.12.293(C322) | M. Sato: Structural biology of a nuclear import of proteins by transportin 1

P04.12.294(C322) | J. Tung: Structures of starch binding domain of *R. oryzae* glucoamylase reveal an amylosic binding model

P04.12.295(C323) | Y. Sato: Crystal structure of the Sec4p:Sec2p complex in the nucleotide exchanging intermediate state

P04.12.296(C323) | J. Jiang: Crystal structure of hMyD88 at 1.8 Å resolution

P04.12.297(C323) | I. De Diego Martinez: First structure of a kinase domain in complex with Ca²⁺/CaM

P04.12.298(C323) | R. Narikawa: Novel crystal structure of red-absorbing form of cyanobacteriochrome AnPixJ-GAF2

P04.12.299(C324) | P. Filippakopoulos: Fes kinase structure reveals cooperative interactions between SH2-kinase domains and substrate

P04.12.300(C324) | Y. Sato: Development of superagonist ligands for the vitamin D nuclear receptor, AMCR277A, -B and 2MeAMCR

P04.12.301(C325) | S. Isogai: Crystal structure of p62 ubiquitin associated (UBA) domain

P04.12.302(C325) | M. Yamashita: Crystal structure of human DAAM1 formin homology 2 domain

P04.12.303(C325) | N. Suzuki: Crystallographic study of the ubiquitin-binding zinc finger domain of human polymerase eta

P04.13.304(C326) | E. C. Schulz: Host recognition of bacteriophage K1F: EndoNF in complex with helical polysialic acid

P04.13.305(C326) | Q. Zhao: Structure of main protease from a global infectious human coronavirus, HCoV-HKU1

P04.13.306(C326) | Y. Wada: The structure of melon necrotic spot virus determined at 2.8Å resolution

P04.13.307(C326) | C. Cambillau: Modular structure of receptor binding proteins from *Lactococcus lactis* phages

P04.13.308(C327) | C. Hsiao: Structure of the SARS coronavirus nucleocapsid protein RNA-binding dimerization domain

P04.13.309(C327) | N. Miyazaki: Crystallization and structure determination of recombinant hepatitis E virus-like particle

P04.13.310(C327) | H. Naitow: The N-terminal induced-fit loops of capsid protein of Rice dwarf virus stabilize capsid of the virus

P04.13.311(C328) | F. Coulibaly: The structure of baculovirus intracellular polyhedrin crystals reveals homoplasy of viral polyhedra

P04.13.312(C328) | M. Kvensakul: Insight into viral inhibition of apoptosis - Structures of myxoma virus M11L and vaccinia virus F1L

P04.13.313(C328) | P. Shaw: Structure of influenza H5N1 nucleoprotein and its interaction with RNA

P04.13.314(C329) | A. Sanjoh: Co-crystallization and X-ray studies of HIV-1 Vpr-Importin-alpha and Vpr-inhibitor complexes

P04.16.380(C349) | M. Bhati: The LIM code for motor neuron specificity

P04.16.381(C349) | N. Kamariah: Crystal structure determination of sheep (*Ovis aries*) methemoglobin at 2.7Å resolution

P04.16.382(C350) | P. Mondikalipudur Nanjappa Gounder: Purification, crystallization and X-ray structure determination of cocosin from *Cocos nucifera*

P04.16.383(C350) | Y. Tanaka: Structural analysis of a giant cell wall-associated adhesion protein Ebh from *Staphylococcus aureus*

P04.16.384(C350) | Y. Chang: Crystal structures of the 70-kDa heat shock proteins in domain disjoining conformation

P04.16.385(C351) | K. Tomoo: Structural studies of BxIE, sugar binding protein from *S. thermophilus* OPC-520

P04.16.386(C351) | T. A. Kajander: The structure of AMIGO - A leucine rich repeat protein important for neuronal growth regulation

P04.16.387(C351) | T. Skalova: Structure of laccase from *Streptomyces coelicolor*

P04.16.388(C351) | S. Tagami: Crystallography of bacterial RNA polymerase complexed with transcription factors

P04.16.389(C352) | Y. Shomura: Crystal structure of the full-length Hsp110 molecular chaperone in the nucleotide-free state

P04.16.390(C352) | M. Yousef: Structural insights into asymmetric cell division in drosophila

P04.17.391(C352) | M. Jaskolski: Ancestral lipid-binding fold of insect juvenile hormone binding protein

P04.17.392(C353) | K. Okuyama: Structure of collagen-helix motif

P04.17.393(C353) | C. Hamiaux: The structure of *Epiphyas postvittana* Takeout 1 suggests a ligand-carrying role for Takeout proteins

P04.17.394(C353) | S. Mouilleron: Structural basis for the RPEL motif interaction with G-actin

P04.17.395(C353) | I. Hayashi: Structural basis for regulatory interplays between EB1, CLIP-170 and p150Glued

P04.17.396(C354) | M. Yamanaka: Topological classification of protein

P04.18.397(C354) | C. T. Webb: Structural insights into the mitochondrial import complex, TIM9.10

P04.18.398(C354) | N. Tanaka: Structural basis for peroxisomal localization of tetrameric carbonyl reductase

P04.22.411(C358) | W. Kuo: Crystal structure of FlgD from *Xanthomonas*: Insights into the hook capping for flagellar assembly

P04.22.412(C359) | C.-J. Liao: Structure of DFA0005 complexed with α -ketoglutarate: A novel member of the ICL/PEPM superfamily

P04.22.413(C359) | C. Yang: RecX adopts a tandem repeats of three-helix bundle: Insights into RecX inhibition of RecA activities

P04.22.414(C359) | J. Tu: Structure of Xcc UMPK/GTP complex reveals a novel GTP-binding site and allosteric mechanism

P04.22.415(C360) | D. Das: Structural studies of novel proteases from the CATH family of zinc peptidases

P04.22.416(C360) | H. Iino: Structural and functional analysis of a universal stress protein from *Thermus thermophilus* HB8

P04.22.417(C360) | T. Ishida: Crystal structure and molecular dynamics simulation of ubiquitin-like domain of murine Parkin

P04.22.418(C361) | A. Ebihara: Structural and functional whole-cell project for the model organism, *Thermus thermophilus* HB8

P04.22.419(C361) | Y. Agari: X-ray crystal structure of a hypothetical Sua5 protein from *Sulfolobus tokodaii* strain 7

P04.22.420(C361) | H. Chiu: Characterization of metal ions and protein oligomeric states in JCSG structures

P04.22.421(C362) | M. Yamada: X-ray structure of TTHA1281 from *thermus thermophilus* HB8

P04.22.422(C362) | K. Shimizu: Structural implications for ligand binding and thermostability of peptidyl-tRNA hydrolase 2

P04.22.425(C363) | T.-S. Yoon: Protein tyrosine phosphatases for targeted proteomics research

P04.22.426(C363) | M. A. Elsliger: Joint center for structural genomics: Tools and resources for the community

P04.22.427(C363) | F. Forouhar: Crystal structure of RimO from *Thermotoga maritima*

P04.22.428(C364) | L. Hung: Crystal structure of a conserved hypothetical protein, rv2844, from *Mycobacterium tuberculosis*

P04.22.429(C364) | R. C. Hughes: Two men and a genome: A poor man's approach to structural genomics

P04.22.430(C364) | H. M. Berman: The PSI structural genomics knowledgebase

P04.22.431(C364) | A. R. Criswell: Bridging the gaps in high throughput crystallography: Upstream and downstream developments for ACTOR

P04.24.447(C369) | J. Koepke: The D-pathway mutation N131D decouples the *P. denitrificans* cytochrome c oxidase by influencing E278

P04.24.448(C370) | M. Suga: High resolution diffraction experiment of bovine cytochrome c oxidase

P04.24.449(C370) | P. S. Kaushal: Water-mediated changes in the quaternary structure of hemoglobin

P04.24.450(C370) | D. Matsuoka: Prediction of hydration structures around polar protein atoms through a database analysis

P04.24.451(C371) | K. Shibata: Methyl group configuration and hydrogen bonds in proteins determined by neutron crystallography

P04.24.452(C371) | J. Chen: Mechanistic insights from a joint neutron and X-ray structure of diisopropyl fluorophosphate

P04.24.453(C371) | E. Honjo: Structure determination of perdeuterated human immunodeficiency virus type 1 protease (HIV-1PR)

P04.24.454(C372) | T. Ishikawa: The effect of deuterium oxide on hydration structure of proteinase K

P04.24.455(C372) | W. Iwai: Neutron crystallography of 2Zn insulin

P04.24.456(C372) | C. Besnard: Dehydration-induced phase transition in D-glucose isomerase

P04.24.457(C373) | H. Durchschlag: A comparison of hydrated protein models obtained by crystallography, SAXS and other techniques

P04.25.458(C373) | S. Chou: Flagellar and SOS structural genomics of *Xanthomonas campestris*

P04.25.459(C373) | C. Olesen: The structural basis of calcium transport by the calcium pump

P04.25.460(C374) | H. Demirci: Recognition and catalysis of ribosomal protein L11 by the protein trimethyltransferase PrmA

P04.25.461(C374) | V. M. Bolanos-Garcia: The structural analysis of BUB1 and BUBR1 reveals their role in the mitotic checkpoint

P04.25.462(C374) | G. Shaw: Structure of a Swi2/Snf2 protein (RapA) and mechanism of RNAP recycling during transcription

P04.25.463(C375) | R. Natsume: Structure and function of the histone chaperone CIA/ASF1 complexed with histones H3 and H4

P04.25.464(C375) | A. Wlodawer: Novel fold of VirA, a type III secretion system effector protein

P04.25.465(C375) | T. Kim: Structural basis on small MutS-related domain of human BCL-3 binding protein

P04.25.466(C376) | A. Yamaguchi: Crystal structure of the Fab fragment of antibody against *p*-bronophenylalanine

P04.25.467(C376) | Y. Hirano: Structural studies of the cytochrome c_z from the green photosynthetic bacterium *Chlorobium tepidum*

P04.25.468(C376) | E. N. Baker: Isopeptide bonds stabilize Gram-positive bacterial pilus structure and assembly

P04.25.469(C377) | K. Fodor: Recognition of an unusual peroxisomal targeting signal 1 by the import receptor Pex5p

08. STRUCTURE/PROPERTY RELATIONSHIP

P08.03.01(C418) | M. Moore: Quaternions, molecular motion and diffuse scattering

P08.03.02(C419) | K. Toriumi: Photo induced isomerization reaction and phase transition of an organo-dirhodium dithionite complex

P08.03.03(C419) | T. Aree: Atomic displacement parameters and specific heat of α -glycine polymorph between 10 and 298 K

P08.03.04(C419) | A. Kobayashi: A structural study on a nano-porous vapochromic Pt complex

P08.03.05(C420) | B. Verberck: Monte Carlo simulations of fullerene-cubane

P08.03.06(C420) | A. Kyono: Effect of selenium incorporation on crystal structure of arsenic sulfide (As_4S_4)

P08.03.07(C420) | P. Metrangolo: Dynamic porous networks capable of diiodoperfluoroalkanes' mixtures separation

P08.03.08(C420) | A. Hasegawa: Dynamic change in emission mode of ammonium anthracenedisulfonate in crystalline state

P08.03.09(C421) | G. M. Day: Computational studies of relationships between structure and lattice dynamics in organic crystals

P08.03.10(C421) | S. Takamizawa: Alcohol vapor inclusion in transformable crystal hosts and application to separation membrane

P08.03.11(C421) | R. Miyake: Gas-conforming ability of $[\text{M}^{\text{III}}(\text{en})_3]\text{Cl}_3$ as transformable ionic-single crystal hosts

P08.04.12(C422) | E. Y. Filatov: Synthesis and properties of dioxalatocuprates (II) and ruthenium (III) aminocomplexes salts

P08.04.13(C422) | P. P. Sahoo: Synthesis and crystallographic study in the $\text{PbO-Bi}_2\text{O}_3\text{-V}_2\text{O}_5$ System: $\text{Pb}_{3-x}\text{Bi}_{2/3x}\text{V}_2\text{O}_8$

P08.04.14(C422) | H. Nakano: Photoinduced surface relief grating formation using single crystals of azobenzene derivatives

P08.04.15(C423) | U. Englert: From crystal to crystal: Dehydration of (4-carboxylato)-silver(I) monohydrate

P08.04.16(C423) | C. Lee: Synthesis and characterization of TAgM_3X_6 (T = Mn, Fe; M = Sb, Bi; X = Se)

P08.04.17(C423) | H. Kanazawa: Availability of solid-state polymerization of amino acid NCAs as compared with solution reactions

P08.04.18(C424) | H. Nakai: Crystalline-state photochromism of a dithionite complex in chiral crystal

P08.04.19(C424) | J. Harada: Photochromism of fulgides: Crystalline state reactions induced by one- and two-photon excitation

P08.04.20(C424) | P. Naumov: Observation of aminyl radical during photoinduced Orton rearrangement in single crystalline state

P08.04.21(C424) | T. Shimogaki: Intercalation of bifunctional guest molecules into poly(muconic acid) as the host

P08.04.22(C425) | A. Matsumoto: Fabrication of thin-film organic crystals by vapor deposition and their solid-state polymerization

P08.04.23(C425) | H. Koshima: Photocyclization of isopropylbenzophenone derivatives in crystals and the shape changes

P08.04.24(C425) | S. Krishnaswamy: Solvent inclusion induces helical molecular assembly in crystals of halobenzoates of *myo*-inositol

P08.04.25(C425) | R. Holmestad: Oxide and metal silicide precipitation on structural defects in mc silicon studied by TEM

P08.04.26(C426) | A. Sekine: Crystalline-state photochromic reaction of *trans*-biindenilidenedion derivatives

P08.06.27(C426) | D. W. Baker: Structural and physical properties of single crystal $K_xNa_{1-x}NbO_3$ around the $x=0.3$ phase boundary

P08.06.28(C426) | E. P. Kharitonova: Phase transitions in one-layered Aurivillius phases, $Bi_2W_{1-x}Mo_xO_6$ ($0 < x < 1$)

P08.06.29(C427) | E. A. Kudrenko: Structural investigations of crystallization processes in amorphous rare earth borates

P08.06.30(C427) | S. R. Evans: Structures and transitions in praseodymium at high pressure

P08.06.31(C427) | I. Rosales Chavez: Phase transformations induced by point defects studied by group-subgroup relationships

P08.06.32(C428) | N. Zhang: Phases and structures of $K_xNa_{1-x}NbO_3$ (KNN) at the high sodium end

P08.06.33(C428) | T. Fujisawa: Transparency and structure of eye lens studied by high-pressure small-angle X-ray scattering

P08.06.34(C428) | M. Takahashi: Structure and phase transition in a lead-based inorganic-organic perovskites $C_5H_{10}NH_2PbI_3$

P08.06.35(C429) | P. Lightfoot: Powder neutron diffraction studies of inorganic ferroelectric phase transitions

P08.06.36(C429) | M. Kubicki: Structural phase transitions in *trans*-1,2-diaminocyclohexane derivative

P08.06.37(C429) | H. T. Stokes: Order parameters for phase transitions to structures with incommensurate modulations

P08.06.38(C429) | H. Fujishita: Spontaneous strain in superconductors

P08.06.39(C430) | Y. Kanke: Charge ordering, isosymmetrical phase transitions and magnetic properties of mixed valence vanadates

P08.06.40(C430) | M. Hayashi: Neutron diffraction study of quantum effects on structural phase transition in quartz

P08.06.41(C430) | K. Friese: Effect of temperature and pressure on the crystal structure of NaV_6O_{11}

P08.06.42(C431) | C. J. Howard: A study of the octahedral tilting / cooperative Jahn-Teller transition in $(Sr_{0.8}Ce_{0.2})MnO_3$

P08.06.43(C431) | P. Makreski: Direct atomic scale observation of photoinduced isomerization of realgar to pararealgar

P08.06.44(C431) | H. Sumiya: Characterization of large nano-polycrystalline diamond synthesized by direct conversion of graphite

P08.06.45(C432) | I. O. Bashkin: Crystal structure and lattice dynamics of high-pressure scandium trihydride

P08.06.46(C432) | Y. Suo: The structural study in Pd_2Mn alloy

P08.06.47(C432) | Y. Imai: Crystal structure and thermal property of ionic liquid- H_2O mixtures

P08.06.48(C433) | H. Mashiyama: Debye-Waller factors and quantum phase transition in KH_2PO_4

P08.06.49(C433) | Y. Tsunoda: Lattice instability of FeNi and Fe_3Pt Invar alloys

P08.06.50(C433) | S. Pilet: Photoinduced disorder-to-incommensurate order phase transition in an Fe(II) spin crossover complex

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P12.13.48(C561) | M. A. Vorontsova: Frank model in faces description of polyethylene and n-alkane crystals

P12.13.49(C561) | R. F. Baggio: Crystallography validates a model for the supramolecular architecture of polymeric metallomesogens

P12.11.50(C562) | J. Kraeusslich: In-plane stress and strain components of epitaxially grown Zn:LiNbO₃ thin films

13. FIBRE DIFFRACTION

P13.03.01(C562) | K. Oshima: Orientation of myosin crossbridges obtained by X-ray fiber diffraction from relaxed skeletal muscles

P13.03.02(C562) | T. Matsuo: Structural changes of myofilaments in live frog skeletal muscle caused by double pulse stimulation

P13.03.03(C562) | S. Fujiwara: Neutron fiber diffraction measurements of muscle using the contrast variation technique

P13.03.04(C563) | C. Hongo: Molecular orientation of a collagen hydrogel with high mechanical strength

P13.03.05(C563) | S. E. Bezirganyan: Multiple scattering of light by collagen nanofibres in biological tissues

P13.03.06(C563) | K. Noguchi: Crystal structures of chitosan and its complexes with hydrogen halides

P13.03.07(C564) | T. Oda: Structural analysis of F-actin using fiber diffraction

P13.02.08(C564) | W. Bian: Computational methods in fibre diffraction

P13.02.09(C564) | M. Hanesaka: Application of neutron imaging plate system to crystal structure analysis of deuterated polymers

14. CHARGE, SPIN AND MOMENTUM DENSITY

P14.02.01(C565) | C. B. Huebschle: Invariants for the DNA

P14.01.02(C565) | I. Hsu: Charge density and X-ray absorption studies on heterobimetallic phosphido-bridged Mo and W complexes

P14.01.03(C565) | C. Jelsch: Generalized library of experimental multipolar atoms

P14.04.04(C566) | S. Van Smaalen: Topological properties of hydrogen bonds: Charge density studies by the maximum entropy method

P14.06.05(C566) | E. Molins: Topology of the electrostatic potential in the analysis of molecular reactivities and hydrogen bonds

P14.05.06(C566) | Y. Takenaka: Avoiding multiple diffraction for accurate charge density measurement using synchrotron radiation

P14.03.07(C567) | E. Bendeif: Experimental and theoretical charge density analysis of new charge-neutral rhodium (I) complexes

P14.03.08(C567) | H. F. Clausen: β -hydroquinone acetonitrile clathrate: Insight into host-guest chemistry

P14.06.09(C567) | S. Grabowsky: Electronic situation in the oxirane ring-charge density and ELF study on several oxirane derivatives

P14.06.10(C568) | M. M. Bhadbhade: Charge density studies on halogen bonding interactions

P14.06.11(C568) | S. Cameron: An organized protocol for weak C-H...X intermolecular bonding in the absence of a hydrogen bond

P14.07.12(C568) | R. Matsukura: A study of electron momentum density distributions in polyethylene, polypropylene and polybutene

P14.07.13(C569) | C. M. L. Vande Velde: Charge density of Ni(MePh₂)₂(C₆F₅)₂ (1) and the energy density in the Ni-C bond

P14.07.14(C569) | Y. Chuang: Experimental and theoretical charge density study of a compound containing linear tri-selenium bond

P14.07.15(C569) | B. N. Kodess: Population of atomic orbitals in silicide vanadium

P14.07.16(C569) | V. R. Hathwar: Structural phase transitions in Rb₂Mn₂(SO₄)₃: A charge density study

P14.07.17(C570) | A. M. Krawczuk: Tartaric acid gyration tensor components from charge density distribution

P14.07.18(C570) | V. V. Zhurov: Chemical bonding in energetic RDX: An experimental and theoretical study

P14.09.19(C570) | R. Kalinowski: Application of the aspherical scattering formalism on the refinement of macromolecules

P14.08.20(C571) | J. Rodriguez-Velamazán: Internal magnetic structure of a Mn₃ cluster determined by polarised neutron diffraction

P14.08.21(C571) | E. Talik: Magnetic frustration in Gd_{7-x}Y_xPd₃ single crystals

P14.08.22(C571) | H. Adachi: Spin form factors of the samarium ions in SmAl₂

P14.08.23(C572) | T. Tadenuma: Study of spin and orbital magnetic form factors of CeRh₃B₂ by X-ray magnetic diffraction

P14.08.24(C572) | K. Suzuki: 3D spin density and orbital ordering of YTiO₃ observed by X-ray magnetic diffraction experiment

P14.08.25(C572) | S. Mizusaki: The interplay between Ru and Mn moment in CaRu_{1-x}Mn_xO₃ by magnetic Compton scattering

P14.08.26(C573) | J. A. Duffy: Development of magnetic Compton scattering using a 9T cryomagnet at the ESRF

P14.08.27(C573) | S. Watanabe: Magnetic Compton profile of ErCo₂ under high pressure

P14.10.28(C573) | N. Tsuji: Magnetic Compton scattering from ferromagnetic perovskite oxide YTiO₃

P14.07.29(C574) | H. Svendsen: Photomagnetic complexes. Structures of excited states

17. CHARACTERIZATION OF DEFECTS, MICROSTRUCTURES AND TEXTURES

P17.02.01(C597) | L. Bourgeois: Three-dimensional void-like defects associated with tin nano-particles in aluminium

P17.04.02(C597) | E. Garnier: Microstructure of surface-tailored platinum nanocrystals

P17.04.03(C597) | X. Bokhimi: Crystallite dimensions obtained with Rietveld refinement and Delaunay triangulation

P17.04.04(C598) | M. Kotrlý: X-ray powder microdiffraction and its limits in forensic practise

P17.02.05(C598) | W. Neumann: Analysis of atomic structure and structural imperfections of ZnTe and (Zn,Mn)Te nanowires

P17.04.06(C598) | A. Leineweber: Edgeworth-series description of anisotropic microstrain broadening in powder-diffraction patterns

P17.07.07(C599) | M. Kayama: Cathodoluminescence characterization of tridymite and cristobalite

P17.04.08(C599) | W. K. Wierzchowski: Strain profiles and crystallographic defects in 6H SiC implanted with 2 MeV As ions

P17.03.09(C599) | H. Yamaguchi: Observation of dislocation in 4H-SiC by means of weak-beam and plane-wave X-ray topography

P17.04.10(C600) | S. Natland: Diffraction studies of an Al-Zn-Mg single crystal by synchrotron radiation

P17.04.11(C600) | E. N. Domoroshchina: X-ray study of langasite: Composition, crystal structure and microstructure

18. ELECTRON MICROSCOPY

P18.04.01(C600) | O. Adiguzel: Crystallography of layered structures of martensite in copper based shape memory alloys

P18.05.02(C601) | E. Abe: Self-similar patterning of inversion domains in Al-Cu-Co decagonal quasicrystals

P18.04.03(C601) | N. Castillo: Thermal stability study and structural of palladium platinum nanoparticles by HREM

P18.01.04(C601) | Y. Kawahara: Morphological studies on single crystals and nanofibers of poly(heptamethylene terephthalate)

P18.05.05(C601) | H. Suzuki: EM Navigator - 3D electron microscopy data navigator

P18.01.06(C602) | M. S. Gangloff: Structural insight into the mechanism of activation of the Toll receptor

P18.01.07(C602) | K. Iwasaki: Structures of the laminin-binding integrins

19. ELECTRON DIFFRACTION

P19.01.01(C602) | K. Tsuda: Electrostatic potential analysis of the ferroelectric phases of perovskite oxides using CBED

P19.01.02(C602) | P. N. H. Nakashima: Differential diffraction

P19.01.03(C603) | P. Oleynikov: Automatic space group determination using precession electron diffraction patterns

P19.01.04(C603) | K. Sato: Determination of order parameter of single L1₀-FePd nanoparticle by nanobeam electron diffraction

P19.03.05(C603) | K. R. Karakhanyan: Contrast reversal of unindexed Kikuchi lines

P19.03.06(C604) | J. T. McKeown: Electron nanocrystallography: Advancements toward automated structure solution

P19.03.07(C604) | J. Morniroli: Contribution of electron precession to the identification of a new zirconium hydride

P19.03.08(C604) | J. Kim: A study of structure properties of ZnS nano-crystals using electron crystallography

P19.03.09(C605) | D. Morikawa: Electrostatic potential analysis of the orbital-ordered phase of spinel oxide FeCr_2O_4 using CBED

P19.03.10(C605) | L. Diaz-Barriga: Microstructural characterization of YPO_4 : Li by transmission electron microscopy

P19.04.11(C605) | Y. Sato: Determination of chiral indices of carbon nanotubes using electron diffraction pattern

P19.04.12(C606) | R. Vissers: Crystal structure of nm-scale precipitates in Al alloys by electron diffraction and DFT calculations

20. NON-AMBIENT CONDITIONS

P20.01.01(C606) | H. J. Shepherd: Structural studies of spin crossover compounds under extreme environmental conditions

P20.02.02(C606) | V. F. Degtyareva: Structural stability of the FeCr sigma phase under pressure to 77 GPa

P20.02.03(C607) | K. Takemura: High-pressure equation of state for gold with a He-pressure medium

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P20.02.04(C607) | A. Ohmura: Infrared spectroscopy of aluminum trihydride α - AlH_3 under high pressure

P20.02.05(C607) | K. Takeda: X-ray study for new filled skutterudite $\text{DyRu}_4\text{P}_{12}$ at ambient and high pressures

P20.03.06(C608) | T. Yamanaka: Ferroelectric and high-low spin transition by MEM using single-crystal and X-ray emission to 100GPa

P20.03.07(C608) | T. Balic-Zunic: Piezoplastic distortion of $\text{Pb}_3\text{Bi}_2\text{S}_6$, a reversible phase transition with migration of chemical bonds

P20.02.09(C608) | O. D. Tschauner: Anomalous compression behaviour of GdPO_4 -monazite

P20.03.10(C608) | T. Bovornratanaraks: Phase transition in AgInTe_2 under high pressure

P20.03.11(C609) | P. Dera: High-pressure behavior of iron-nickel phosphides and its implications for meteorites and Earth core

P20.03.12(C609) | S. Aoyagi: High-pressure and low-temperature charge density study of $\text{Pr}_{1-x}\text{Ca}_x\text{CoO}_3$ by SR powder diffraction

P20.03.13(C609) | N. Hirao: Synthesis and structure of new platinum hydrides at high pressure

P20.03.14(C610) | A. Machida: Pressure-induced structural transition in rare-earth metal hydrides

P20.04.15(C610) | M. Mezouar: Toward fully automated high pressure beamlines : Recent developments at beamline ID27, ESRF

P20.02.16(C610) | C. L. Bull: High pressure single-crystal neutron diffraction of squaric acid

P20.03.17(C611) | C. A. Tulk: Guest disorder, clustering and structure of low/high pressure forms of inert gas clathrate hydrates

P20.12.18(C611) | M. Messerschmidt: LaueGUI- an open source Matlab tool for online inspection of time resolved Laue diffraction patterns

P20.13.19(C611) | J. E. Warren: A good bye from SMX @ the SRS

P20.03.20(C611) | H. Liu: Phase transition studies for powder and amorphous materials under high pressure

P20.03.21(C612) | T. Hattori: Pressure-induced change of the chemical short-range order in liquid compounds

P20.04.22(C612) | Y. Katayama: A method for analysis of energy-dispersive X-ray diffraction from disordered systems under pressure

P20.03.23(C612) | H. Katzke: Pressure- and temperature-induced structural phase transition mechanisms of nitrogen

P20.03.24(C612) | A. Budzianowski: Thermodynamic exploration of conformational space of 1,2-ethylene glycol

P20.03.25(C613) | J. S. Loveday: The structure and nature of ice VII to 20 GPa

P20.05.26(C613) | N. J. Brooks: High pressure X-ray cell for soft matter

P20.05.27(C613) | I. D. H. Oswald: High-pressure structural studies of pharmaceutical materials

P20.05.28(C614) | C. G. Jeworrek: Kinetics and mechanisms of pressure-induced phase transitions of ternary model biomembrane systems

P20.09.29(C614) | T. Sakagami: Equation of state for the low-pressure crystalline phase of tin tetraiodide

P20.09.30(C614) | T. Hase: Molecular dynamics simulation study on liquid tin tetraiodide

P20.03.31(C615) | S. Schiffrers: Solid state reactions with photocystallography

P20.12.32(C615) | M. Hoshino: Different emission colors and photoexcited structures of $[\text{AuCl}(\text{PPh}_3)_2]$ in two polymorphic crystals

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Tuesday, August 26 - Wednesday, August 27 - Poster Sessions

P20.12.33(C615) | Y. Ozawa: Single crystal structure analysis of photo-excited state of halogen-bridged dicopper(I) complexes

P20.07.34(C616) | M. V. Valkeapää: Structural changes in YBaCo₄O_{7+δ} monitored by variable temperature neutron powder diffraction

P20.09.35(C616) | W. Paszkowicz: Lattice parameter of microcrystalline gold in a broad temperature range

P20.10.36(C616) | J. Jørgensen: Magnetic ordering in Dy_{1-x}Ca_xBaCo₂O_{5.5} for x = 0.0 and 0.1

P20.03.38(C617) | R. Miletich: The ‘gillespite-III’ phase - the key for understanding a famous high-pressure phase transition?

26. CRYSTALLOGRAPHIC TEACHING

P26.05.01(C633) | M. I. Aroyo: Teaching crystallography online by the Bilbao Crystallographic Server

P26.06.02(C633) | G. M. Ferrence: Cambridge Crystallographic Database System utilization in undergraduate chemistry teaching

28. ART, CULTURAL HERITAGE AND CRYSTALLOGRAPHY

P28.01.01(C634) | R. Delgado-Macuil: X-ray diffraction applied to calcium determination in Mexican clays for Talavera production

P28.01.02(C634) | S. Miura: X-ray characterization of the early Islamic reddish luster painted pottery

P28.02.04(C634) | Y. Watanabe: Building of three dimensional Escher patterns by Layer-manufacturing

P28.02.05(C635) | A. Thalal: Analysis of the craftsman’s approach to moroccan geometric pattern

P28.01.07(C635) | Y. Abe: Development of portable X-ray powder diffractometer and its application to archaeological artifacts

Memo

