

64TH ROCKY MOUNTAIN CONFERENCE ON MAGNETIC RESONANCE

46TH INTERNATIONAL EPR SYMPOSIUM POSTER SESSIONS AGENDA

MONDAY, AUGUST 4 • 7:00–9:00 p.m. (Authors Present for Posters Labeled A)

TUESDAY, AUGUST 5 • 7:00–9:00 p.m. (Authors Present for Posters Labeled B)

A	200	Broadband and Selective Inversion of Electron Spins at Q-band Frequencies. <u>Dmitry Akhmetzyanov</u> , Bruker BioSpin Corp.
B	201	Development of Rapid-Scan EPR Spectrometer and Imager at L-band (1.0 GHz). <u>Georgina Amassah</u> , University of Denver
A	202	Multifrequency Study of Multiphoton Electron Paramagnetic Resonances in Crystalline Gd ³⁺ :YVO ₄ . <u>Sabastian Atwood</u> , National High Magnetic Field Laboratory
B	203	Electronic Wavefunction Delocalization Beyond the Metallic Core of Palladium Dodecanethiolate Nanoparticles: Revealed through Pulse ESR. <u>Kristen Aviles</u> , Pennsylvania State University
A	204	Optomechanical Phase Shifters for Free-electron-laser Powered Agile Pulsed Electron Spin Resonance Spectroscopy. <u>Casey Bernd</u> , University of Santa Barbara
B	205	Quintet-to-Radical Spin Polarization Transfer in Pentacene-Radical Hybrid Polymers. <u>Jasleen Bindra</u> , Argonne National Laboratory
A	206	EPR Characterization of Molten Salt Synthesized Erbium(III) Doped Yttria Nanoparticles. <u>William Bittner</u> , University of Washington
B	207	An EDMR and NZFMR Study of Defects Generated in SiO ₂ by High Electric Field Gate Stress. <u>George Bodenschatz</u> , Pennsylvania State University
A	208	Near Zero Field Magnetoresistance and Electrically Detected Magnetic Resonance Investigation of 4H-SiC PN Junctions. <u>Kaila Burgess</u> , Penn State University
B	209	Flavoproteins as Native and Genetically Encoded Spin Probes for in Cell ESR Spectroscopy. <u>Timothee Chauvire</u> , Cornell University
A	210	Measurement of TEMPO Reduction to Determine Storage Effects on Antioxidant Levels in Fruits and Vegetables II. <u>Emily Cheng</u> , Steppingstone MAgnetic Resonance Training Center
B	211	Probing Alternating Exchange Interactions in a Molecular Spin Chain via HFEP. <u>Luan de Lima</u> , Brno University of Technology (CEITEC - BUT)
A	212	Advances in Distance Measurement Throughput and Sensitivity through a Superconducting Resonator Platform. <u>Austin Gamble Jarvi</u> , High Q Technologies
B	213	High-Power 263 GHz Pulsed-EPR Spectrometer for the Elucidation of Transition Metals in Protein Systems. <u>Zikri Hasanbasri</u> , University of California - Davis
A	214	Antioxidant Loaded Beta-Cyclodextrin Nanofibers for Preventing Edible Oil Degradation. <u>Mariam Hasany</u> , Cornell University
B	215	In-cell Cu(II)-NTA Labeling for EPR Distance Measurements. <u>Hannah Hunter</u> , University of Pittsburg
A	216	Optically Detected Magnetic Resonance Spectroscopy of Carbon and Nitrogen in Soil and Plant Analytes Using a Microfluidic Diamond Quantum Sensing Platform. <u>Sehrish Iqbal</u> , University of Nebraska Lincoln
B	217	Development of Hardware and Protocols for Ex-Vivo Rat Liver Oxygen Imaging. <u>Mrignayani Kotecha</u> , O2M Technologies, LLC
A	218	Coherent Control Over Nuclear Hyperpolarization for Storage Using an Optically Initializable Chromophore-radical System. <u>Hoang Le</u> , Northwestern University
B	219	Two-Axis Rotating Sample Holder for Cryogenic, High Field EPR. <u>Wei-Hsu (Wish) Lin</u> , University of California, Santa Barbara

A	220	Probing Fundamental Magneto-Structural Properties of Vanadyl Porphyrins as Molecular Spin Qubits. <u>Molly Lockart</u> , Samford University
B	221	Q-band Double Quantum Coherence ESR for Sensitive Nitroxide-based Distance. <u>Alysia Mandato</u> , University of Pittsburg
A	222	Towards Quantum Diamond Microscope for Real-space, Wide-field Hyperpolarized NMR Imaging. <u>Camille McDonnell</u> , University of Maryland, College Park
B	223	Photogenerated Spin-Correlated Radical Pairs in Silicon Quantum Dot– Organic Molecule Conjugates. <u>Seyedeh Shadi Mir Mohammadi</u> , University of Utah
A	224	Detection of Multiple Components in Closely Spaced DEER Distance Distributions via Continuous Wavelet Transform. <u>Utkarsh Misra</u> , Cornell University
B	225	Electrostatics of the Membrane Interface Revealed by EPR of Lipid-Based pH-Sensitive Probes. <u>Ngan Nguyen</u> , North Carolina State University
A	226	OxyTrack: a Novel Needle Sensor for <i>in situ</i> Oximetry. <u>Ryan O'Connell</u> , Dartmouth College
B	227	Observation of Multi-mode Spin-Rabi Oscillation of Strongly EPR Driven Polaron Pairs In a Pi-Conjugated Polymer. <u>Bonaventure Odeke</u> , University of Utah
A	228	Rigid Cu(II) Spin Label Sensitive to DNA Conformational Flexibility in Protein-DNA Complexes. <u>Shramana Palit</u> , University of Pittsburgh
B	229	Probing the Electrical Properties of Twisted Tetrathiafulvalene Thin-Films Using cwEPR . <u>Matthew Ross</u> , New York University
A	230	Enabling Enhanced Time-Resolved High-Field EPR of Protein Dynamics with a Quasioptical Sample Holder. <u>Johanna Schubert</u> , University of California, Santa Barbara
B	231	High Frequency NMR Spectroscopy With NV Centers in Diamond. <u>Janis Smits</u> , University of New Mexico
A	232	EPR and Computational Study on the Radiation-induced Transformations in the Nuclear Fuel Cycle. <u>Ilya Sosulin</u> , University of Notre Dame, Radiation Laboratory
B	233	Benchmarking Density Functional Theory for the Prediction of Fluoroalkyl Radical EPR Signatures. <u>Isaac Spackman</u> , Colorado School of Mines
A	234	A Comprehensive Set of Distance Rulers for Pulse Dipolar ESR Spectroscopy. <u>Madhur Srivastava</u> , Cornell University
B	235	Magnetic Resonance Spectroscopy of a Model Hydrogenase. <u>Pathorn Teptarakulkarn</u> , University of California Los Angeles
A	236	High-field EPR Analysis of Co- and Fe-based Metal Complexes: Unraveling Electronic and Geometric Properties. <u>Kavipriya Thangavel</u> , National High Magnetic Field Laboratory
B	237	Time-resolved Electron Paramagnetic Resonance for Silicon Quantum Dots with Radical Organic Ligands. <u>Alexander Yount</u> , University of Utah