

Session Program

Sep 7 - 10, 2020



**20th Conference of Czech and
Slovak Physicists**

Poster session

Wed, September 9

3:45 PM

Poster session: opening

Session |

Location: Faculty of Mathematics and Physics, Charles University V Holešovičkách 2, 180 00 Prague 8, Czech Republic

3:45 – 3:50 PM **Poster session - opening**

3:50 – 4:20 PM

NEW VIEW ON THE ORIGIN OF HIGH CONDUCTIVITY OF POLYANILINE FILMS PROTONATED BY HYDROCHLORIC ACID

Speaker

Rutsch R.

3:50 – 4:20 PM **VIDEOANALÝZA V STEM VZDELÁVANÍ**

Speaker

Hockicko P.

3:50 – 4:20 PM

Elektronická Sbírka řešených úloh z fyziky a Sbírka fyzikálních pokusů

Speaker

Snětinová M.

3:50 – 4:20 PM

ÚČAST ČESKOSLOVENSKA NA ZALOŽENÍ SPOJENÉHO ÚSTAVU JADERNÝCH VÝZKUMŮ

Speaker

Těšínská E.

3:50 – 4:20 PM

CALDEIRA-LEGGET MODEL FOR PARTICLE-BATH SYSTEMS IN THE PRESENCE OF A MAGNETIC FIELD

Speaker

Lisý V.

3:50 – 4:20 PM

BROWNIAN MOTION IN A BATH AFFECTED BY AN EXTERNAL HARMONIC POTENTIAL

Speaker

Tóthová J.

3:50 – 4:20 PM

BIPARTITE ENTANGLEMENT IN THE SPIN-1/2 ISING-HEISENBERG PLANAR LATTICE CONSISTING OF INTER-CONNECTED TRIGONAL BIPYRAMIDS

Speaker

Gálisová L.galisova.lucia@gmail.com

3:50 – 4:20 PM

PHASE BIREFRINGENCE DISPERSION FUNCTION AS A COMPLEMENTARY TOOL FOR INVESTIGATION OF NEMATIC LIQUID CRYSTAL STRUCTURE

Speaker

Tarjányi N.

3:50 - 4:20 PM

Role of water molecules in the phase transitions in lawsonite**Speaker**

Kadlec F.

3:50 - 4:20 PM

COMPLEX VOLUME CHANGES INDUCED BY HIGH PRESSURE AND EXTERNAL MAGNETIC FIELD IN Ni₂MnSi-BASED HEUSLER ALLOY**Speaker**

Kamarád J.

3:50 - 4:20 PM

MÖSSBAUER SPECTROMETRY IN THE STUDY OF METALLIC GLASSES**Speaker**

Miglierini M.

3:50 - 4:20 PM

SOLID-STATE ¹H NMR STUDY OF CORNSTARCH PLASTICIZED WITH UREA AND GLYCEROL DURING AGEING**Speaker**

Šmídová N.

4:20 - 4:50 PM

PHASE TRANSFORMATIONS IN Al-Li-BASED ALLOY STUDIED BY IN-SITU TEM.**Speaker**

Cieslar M.

4:20 - 4:50 PM

MONTE CARLO SIMULACE PRODUKCE UPSILON MEZONU**Speaker**

Češka J.

4:20 - 4:50 PM

EXOMARS 2022: PLANNED MEASUREMENTS OF ELECTROMAGNETIC RADIATION ON THE SURFACE OF MARS**Speaker**

Santolík O.

4:20 - 4:50 PM

PROPERTIES OF LIGHTNING-INDUCED ELECTROMAGNETIC WAVES DETECTED CLOSE TO JUPITER**Speaker**

Kolmašová I.

4:20 - 4:50 PM

The compound [Ni(2aepy)₂Cl(H₂O)]Cl·H₂O as a candidate approaching a topological quantum critical point of a spin-1 one-dimensional antiferromagnet**Speaker**

Holub M.

4:20 - 4:50 PM

SHORT-RANGE CORRELATION INVESTIGATION IN DEUTERON INDUCED REACTIONS

Speaker

Janek M.

4:20 – 4:50 PM

ANALÝZA TOMOGRAFICKÝCH REKONSTRUKCÍ Z DAT TOKAMAKU COMPASS**Speaker**

Svoboda J.

4:20 – 4:50 PM

STRUCTURE AND GROWTH OF OMEGA-Ti NANOPARTICLES IN BETA-Ti SINGLE CRYSTALS STUDIED BY ANOMALOUS X-RAY DIFFRACTION**Speaker**

Holý V.

4:20 – 4:50 PM

EVOLUTION OF MAGNETISM IN UCo_{1-x}Ir_xGe SYSTEM**Speaker**

Hovančík D.

4:20 – 4:50 PM

PROPERTIES OF YELLOW BAND IN GAN LAYERS**Speaker**

Hubáček T.

4:20 – 4:50 PM

THE STUDY OF LATTICE DYNAMICS IN LOW-DIMENSIONAL QUANTUM MAGNETS WITH CHAIN-LIKE CRYSTAL STRUCTURE**Speaker**

Vinnik O.

4:20 – 4:50 PM

IMAGING HIGH-ASPECT RATIO NANOSTRUCTURES ON SOFT AND BRITTLE MATERIALS USING ATOMIC FORCE MICROSCOPY**Speaker**

Černý M.

4:50 – 5:20 PM

INTERDIFFUSION IN ALUMINIUM - STEEL CLAD**Speaker**

Křivská B.

4:50 – 5:20 PM

NANOFUID BASED ON A NEW GENERATION OIL**Speaker**

Paulovičová K.

4:50 – 5:20 PM

STUDY OF RING-LIKE STRUCTURES IN PARTICLE EMISSION IN RELATIVISTIC NUCLEAR INTERACTIONS**Speaker**

Kravcakova A.

4:50 – 5:20 PM

Výzkum přechodu do režimu zlepšeného udržení plazmatu na tokamaku COMPASS**Speaker**

Peterka M.

4:50 - 5:20 PM

DESIGN OF NOVEL MATERIALS: ARPES EXPERIMENTS AND THEORY**Speaker**

Minar J.

4:50 - 5:20 PM

DEDICATED RUNAWAY ELECTRONS STUDIES AT THE TOKAMAK COMPASS**Speaker**

Macusova E.

4:50 - 5:20 PM

SEARCH FOR PSEUDORAPIDITY FLUCTUATIONS IN HIGH ENERGY NUCLEAR COLLISIONS**Speaker**

Vrláková J.

4:50 - 5:20 PM

COR SYSTEM FOR COSMIC RAYS TRAJECTORIES IN MAGNETOSPHERE SIMULATION**Speaker**

Gecasek D.

4:50 - 5:20 PM

STATISTICAL ERROR OF FP EQUATION SOLUTION FOR COSMIC RAYS DISTRIBUTION IN THE HELIOSPHERE**Speaker**

Michajlenko V.

4:50 - 5:20 PM

INTERDIFFUSION IN ALUMINIUM - STEEL CLAD**Speaker**

Křivská B.

4:50 - 5:20 PM

CHARACTERIZATION OF THIN FREE-STANDING AL-MG FILMS**Speaker**

Bajtošová L.

4:50 - 5:20 PM

RECRYSTALLIZATION OF TWIN-ROLL CAST AA8079 ALUMINUM ALLOY AFTER HOMOGENIZATION**Speaker**

Králik R.

5:20 - 5:50 PM

Super-Klein tunneling of Dirac fermions through electrostatic gratings in graphene**Speaker**

Jakubský V.

5:20 - 5:50 PM

DIELECTRIC SPECTROSCOPY OF TRANSFORMER OIL-BASED FERROFLUIDS WITH MN-ZN FERRITE NANOPARTICLES**Speaker**

Karpets M.

5:20 - 5:50 PM

A SETUP FOR MEASUREMENT OF THE TOTAL REACTION CROSS SECTION

Speaker

Siváček I.

5:20 - 5:50 PM

Pressure induced superconductivity in a CeRhSi₃ single crystal - high pressure study

Speaker

Staško D.

5:20 - 5:50 PM

PHASE DIAGRAMS OF Ce₂Pd₂In INTERMETALLIC COMPOUND

Speaker

Král P.

5:20 - 5:50 PM

STUDY OF P3HT THIN FILM PHOTOLUMINESCENCE SPECTRA USING H-J AGGREGATE THEORY

Speaker

Dr S. Kotorová

5:20 - 5:50 PM

H-function Calculation for Selected Spectral Bands of Oxygen

Speaker

Pokorný J.

5:50 PM