

Dielectric Solids Division Fachverband Dielektrische Festkörper (DF)

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Overview of Invited Talks and Sessions

(lecture rooms EB 107 and EB 407; Poster E)

Invited and Topical Talks

DF 1.1	Mon	9:30–10:00	EB 107	Conducting 180° domain walls in PZT thin films — ●PATRYCJA PARUCH
DF 1.2	Mon	10:00–10:30	EB 107	Charged Domain Walls and Their Impact on Properties of Ferroelectrics — ●ALEXANDER TAGANTSEV
DF 1.3	Mon	10:30–10:50	EB 107	UV-induced domain wall conductivity in Lithium Niobate single crystals — MATHIAS SCHRÖDER, ●ALEXANDER HAUSSMANN, LUKAS M. ENG
DF 1.4	Mon	10:55–11:25	EB 107	Mechanisms and control of conduction through domain walls in BiFeO₃ thin films — ●SAEEDAH FAROKHIPOOR, BEATRIZ NOHEDA
DF 1.5	Mon	11:25–11:55	EB 107	Domain wall functionality in complex oxides — ●JAN SEIDEL
DF 1.6	Mon	11:55–12:15	EB 107	Photoinduced electrical transport properties of LiNbO₃ single crystals — ●ANDREAS THIESSEN, ALEXANDER HAUSSMANN, MATHIAS SCHRÖDER, THEO WOIKE, LUKAS M. ENG
DF 15.1	Thu	9:30–10:10	EB 107	Dielectric perovskite oxides: Always good for a surprise — ●ANNETTE BUSSMANN-HOLDER
DF 17.1	Thu	15:00–15:30	EB 107	Wind energy - Characterization and modeling of short-term fluctuations in incoming wind and power output — ●MICHAEL HÖLLING, MATTHIAS WÄCHTER, ALLAN MORALES, PATRICK MILAN, JOACHIM PEINKE
DF 17.2	Thu	15:30–16:00	EB 107	Fluktuationen in der Stromerzeugung aus erneuerbarer Energien: Ihre Charakterisierung und Möglichkeiten ihrer Kompensation — ●DETLEV HEINEMANN
DF 17.3	Thu	16:00–16:30	EB 107	Glasses and glass ceramics as dielectrics for high power capacitors. — ●MARTIN LETZ
DF 17.6	Thu	17:10–17:40	EB 107	High Tc Superconducting Energy Storage Systems — ●FRANK WERFEL
DF 17.7	Thu	17:40–18:10	EB 107	The transmission of high-power microwaves via dielectric diamond windows: Design, qualification and first steps towards a broadband diamond window in the range of 30GHz to several THz for actual and future fusion devices — ●THEO SCHERER, DIRK STRAUSS

Invited talks of the joint symposium SYXD

See SYXD for the full program of the symposium.

SYXD 1.1	Mon	15:00–15:30	H 0105	Disputed discovery: The beginnings of X-ray diffraction in crystals — ●MICHAEL ECKERT
SYXD 1.2	Mon	15:30–16:00	H 0105	Why are quasicrystals quasiperiodic? — ●WALTER STEURER
SYXD 1.3	Mon	16:00–16:30	H 0105	Coherent Diffraction Imaging with Free-Electron Lasers — ●MASSIMO ALTARELLI
SYXD 1.4	Mon	16:30–17:00	H 0105	X-ray free-electron lasers - emerging opportunities for structural biology — ●ILME SCHLICHTING
SYXD 1.5	Mon	17:00–17:30	H 0105	Structure analysis by x-ray diffraction and x-ray imaging: beyond crystals, beyond averages, and beyond modeling — ●TIM SALDITT

Invited talks of the joint symposium SYRS

See SYRS for the full program of the symposium.

SYRS 1.1	Thu	15:00–15:30	H 0105	Redox-based resistive memories - recent progress — ●RAINER WASER
SYRS 1.2	Thu	15:30–16:00	H 0105	Electric Formation of Metal/SrTiO₃ Junctions and its Correlation to Multi-Dimensional Defects — ●DIRK C. MEYER, HARTMUT STÖCKER, JULIANE HANZIG, FLORIAN HANZIG, MATTHIAS ZSCHORNAK, BARBARA ABENDROTH, SIBYLLE GEMMING
SYRS 1.3	Thu	16:00–16:30	H 0105	The Connecting between the Properties of Memristive Material Systems and Application Requirements — ●THOMAS MIKOLAJICK, STEFAN SLESAZECK, HANNES MEHNE
SYRS 1.4	Thu	16:30–17:00	H 0105	Mechanism of resistive switching in bipolar transition metal oxides — ●MARCELO ROZENBERG
SYRS 1.5	Thu	17:00–17:30	H 0105	Resistive switching memories: Mechanisms, modeling and scaling — ●DANIELE IELMINI

Sessions

DF 1.1–1.6	Mon	9:30–12:15	EB 107	Focus Session: Conductive Domain Walls
DF 2.1–2.11	Mon	9:30–12:45	EB 301	Multiferroics I (jointly with MA, DS, KR, TT)
DF 3.1–3.3	Mon	15:00–16:00	EB 107	Nonlinear dielectrics, phase transitions, relaxors
DF 4.1–4.12	Mon	15:00–18:30	EB 301	Multiferroics II (jointly with MA, DS, KR, TT)
DF 5.1–5.2	Mon	16:05–16:45	EB 107	Electrical, mechanical and electromechanical properties
DF 6.1–6.3	Mon	16:50–17:50	EB 107	Application of dielectric solids
DF 7.1–7.11	Tue	9:30–12:45	EMH 225	100 years since the Laue experiment: Topical aspects of diffraction and scattering (Joint Session KR, BP, CPP, DF, GP, MA, MI, MM; related to SYXD)
DF 8.1–8.12	Tue	9:30–12:45	EB 301	Multiferroics III (jointly with MA, DS, KR, TT)
DF 9.1–9.90	Tue	12:15–15:15	Poster A	Poster I - Biomagnetism, FePt Nanoparticles, Magnetic Particles/Clusters, Magnetic Materials, Magnetic Semiconductors, Half-metals/Oxides, Multiferroics, Topological Insulators, Spin structures/Phase transitions, Electron theory/Computational micromagnetics, Magnetic coupling phenomena/Exchange bias, Spin-dependent transport, Spin injection/spin currents, Magnetization/Demagnetization dynamics, Magnetic measurement techniques
DF 10.1–10.6	Wed	9:30–11:30	EB 407	High- and low-k-dielectrics (jointly with DS)
DF 11.1–11.8	Wed	9:30–12:20	EB 107	Optical and nonlinear optical properties, photonic
DF 12.1–12.1	Wed	12:25–12:45	EB 107	Nano- and microstructured dielectrics
DF 13.1–13.28	Wed	15:00–17:30	Poster E	Poster II
DF 14.1–14.4	Wed	15:00–17:30	Poster E	Poster III – 100 years since the Laue experiment: Topical aspects of diffraction and scattering (Joint Session KR, BP, CPP, DF, GP, MA, MI, MM)
DF 15.1–15.5	Thu	9:30–11:35	EB 107	Dielectric and ferroelectric thin films
DF 16.1–16.2	Thu	11:40–12:20	EB 107	Dielectric surfaces and interfaces
DF 17.1–17.7	Thu	15:00–18:10	EB 107	Focus Session: Alternative energies – Compensation of long- and short-term fluctuations (jointly with DY)
DF 18.1–18.5	Fri	9:30–10:45	H 0111	Resistive switching I (jointly with DS, KR, HL)
DF 19.1–19.6	Fri	11:00–12:30	H 0111	Resistive switching II (jointly with DS, KR, HL)

Jahreshauptversammlung des Fachverbandes Dielektrische Festkörper

Mittwoch 18:00–19:00 EB107

- Bericht des Fachverbandleiters
- Analyse des bisherigen Tagungsverlaufes
- Hinweise zur Wahl des Vorstandsrates der DPG
- Ausblick auf die Wahl des DF-Vorstandes 2013
- Verschiedenes