

## Dielectric Solids Division Fachverband Dielektrische Festkörper (DF)

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### Overview of Invited Talks, Topical Talks, and Sessions

(Lecture rooms H25 and H26 (Vielberth-Gebäude); Poster E)

#### Invited Talks

DF 7.1 Tue 9:30–10:10 H25 **Spin and charge transport in multiferroic domain walls** — ●RAMAMOORTHY RAMESH

#### Topical Talks

DF 6.1 Mon 15:00–15:30 H26 **CVD diamond for nuclear fusion experiments** — ●ECKHARD WÖRNER, CHRISTOPH WILD

DF 6.2 Mon 15:30–16:00 H26 **Torus Diamond Window for the ITER ECRH Upper launcher** — ●SABINE SCHRECK, GAETANO AIELLO, GIOVANNI GROSSETTI, FRANCESCO MAZZOCCHI, ANDREAS MEIER, PETER SPAEH, DIRK STRAUSS, ALESSANDRO VACCARO, THEO SCHERER

DF 6.4 Mon 16:20–16:50 H26 **Double-disc Diamond Windows for Fusion Applications** — ●ALESSANDRO VACCARO, GAETANO AIELLO, GIOVANNI GROSSETTI, FRANCESCO MAZZOCCHI, ANDREAS MEIER, THEO SCHERER, SABINE SCHRECK, PETER SPAEH, DIRK STRAUSS

DF 6.5 Mon 17:10–17:40 H26 **Dielectric Characterization for Industrial Microwave Applications** — ●SERGEY SOLDATOV, VASILEIOS RAMOPOULOS, GUIDO LINK, JOHN JELONNEK

DF 7.5 Tue 11:30–12:00 H25 **Conduction and Diode Behaviour in Charged Domain Walls** — ●MICHAEL CAMPBELL

DF 8.1 Tue 14:00–14:30 H25 **Microscopic order parameters coupling at domain walls and its effect on macroscopic properties** — ●SAEEDAH FAROKHIPOOR

DF 9.1 Wed 9:30–10:00 H25 **Functional domain walls in multiferroics** — ●DENNIS MEIER

DF 9.3 Wed 10:20–10:50 H25 **Neutron scattering study of the cycloidal and Néel-type skyrmion lattice phases of  $\text{GaV}_4\text{S}_8$**  — ●SÁNDOR BORDÁCS, JONATHAN S WHITE, NICOLE REYNOLDS, CHARLES D DEWHURST, HENRIK M RØNNOW, VLADIMIR TSURKAN, ALOIS LOIDL, ISTVÁN KÉZSMÁRKI

DF 9.5 Wed 11:30–12:00 H25 **Collective spin excitations at GHz frequencies in Skyrmion-hosting bulk materials** — ●DIRK GRUNDLER

DF 9.7 Wed 12:20–12:50 H25 **Skyrmionic states in ferroelectric nanocomposites** — YOUSRA NAHAS, ●SERGEI PROKHORENKO, LYDIE LOUIS, ZHIGANG GUI, IGOR KORNEV, LAURENT BELLAICHE

DF 10.1 Wed 15:00–15:30 H25 **Controlling domain wall motion as a route towards new functionalities in  $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$  ferroelectric thin films** — ●LEO MCGILLY, LUDWIG FEIGL, PETR YUDIN, TOMAS SLUKA, ALEXANDER TAGANTSEV, NAVA SETTER

DF 10.7 Wed 17:30–18:00 H25 **Domain Glass** — ●EKHARD SALJE

**Invited talks of the joint symposium SYHP**

See SYHP for the full program of the symposium.

SYHP 1.1	Mon	9:30–10:00	H1	<b>Perovskite Semiconductors: Opportunities and Challenges for Photovoltaic Materials Design</b> — ●DAVID B. MITZI
SYHP 1.2	Mon	10:00–10:30	H1	<b>Perovskite Solar Cells: A new Paradigm in Photovoltaics</b> — ●MOHAMMAD NAZEERUDDIN
SYHP 1.3	Mon	10:30–11:00	H1	<b>Charge-Carrier Diffusion and Radiative Efficiencies in Hybrid Metal Halide Perovskites</b> — ●LAURA HERZ
SYHP 1.4	Mon	11:15–11:45	H1	<b>Photovoltage losses in perovskite solar cells</b> — ●KRISTOFER TVINGSTED
SYHP 1.5	Mon	11:45–12:15	H1	<b>Computational screening of perovskite solar energy materials</b> — ●KARSTEN W. JACOBSEN

**Invited talks of the joint symposium SYCE**

See SYCE for the full program of the symposium.

SYCE 1.1	Mon	15:00–15:30	H1	<b>Multicaloric effects in metamagnetic Heusler materials</b> — ●ANTONI PLANES
SYCE 1.2	Mon	15:30–16:00	H1	<b>Multicaloric effect in biological systems: a case of nerve action</b> — ●MATJAZ VALANT, LAWRENCE J. DUNNE, ANNA-KARIN AXELSSON, FLORIAN LE GOUPIL, GEORGE MANOS
SYCE 1.3	Mon	16:00–16:30	H1	<b>Optimizing the electrocaloric effect by first-principles simulations: The role of strain and defects</b> — ●ANNA GRÜNEBOHM
SYCE 1.4	Mon	16:45–17:15	H1	<b>Giant inverse barocaloric effects in ferroelectric ammonium sulphate</b> — POL LLOVERAS, ENRIC STERN-TAULATS, MARIA BARRIO, JOSEP LLUIS TAMARIT, SAM CROSSLEY, WEI LI, VLADIMIR POMJAKUSHIN, ANTONI PLANES, LLUIS MAÑOSA, NEIL MATHUR, ●XAVIER MOYA
SYCE 1.5	Mon	17:15–17:45	H1	<b>TiNiCu-based thin films for elastocaloric cooling</b> — ●ECKHARD QUANDT, CHRISTOPH CHLUBA

**Sessions**

DF 1.1–1.3	Sun	16:00–18:30	H18	<b>Tutorial: Hybrid and Perovskite Photovoltaics (CPP with DS, DF, HL)</b>
DF 2.1–2.5	Mon	9:30–12:15	H1	<b>SYHP: Fundamentals of Hybrid and Perovskite Photovoltaics (CPP with DS, DF, HL)</b>
DF 3.1–3.7	Mon	9:30–12:10	H26	<b>Optical and nonlinear optical properties, photonic</b>
DF 4.1–4.12	Mon	14:45–18:30	H2	<b>Photovoltaics (HL with DF)</b>
DF 5.1–5.5	Mon	15:00–17:45	H1	<b>SYCE: Caloric effects in ferroic materials (MM with MA, DF)</b>
DF 6.1–6.8	Mon	15:00–18:40	H26	<b>Focus Session: Applications of Dielectric Materials in Microwave Technology</b>
DF 7.1–7.8	Tue	9:30–13:00	H25	<b>Focus Session: Ferroic Domain Walls I</b>
DF 8.1–8.6	Tue	14:00–16:00	H25	<b>Focus Session: Ferroic Domain Walls II</b>
DF 9.1–9.7	Wed	9:30–12:50	H25	<b>Focus Session: Skyrmions meet Multiferroicity</b>
DF 10.1–10.7	Wed	15:00–18:00	H25	<b>Focus Session: Ferroic Domain Walls III</b>
DF 11.1–11.32	Wed	18:00–20:00	Poster E	<b>Poster</b>
DF 12.1–12.9	Thu	9:30–12:50	H25	<b>Multiferroics I (DF with MA)</b>
DF 13.1–13.8	Thu	9:30–12:30	H26	<b>Nano- and microstructured dielectrics/thin films (DF with KR)</b>
DF 14.1–14.9	Thu	15:00–17:30	H34	<b>Multiferroics II (MA with DF)</b>
DF 15.1–15.2	Thu	15:00–15:40	H26	<b>Ceramics and Applications (DF with KR)</b>
DF 16.1–16.4	Thu	15:40–17:00	H26	<b>Crystallography in Materials Science (KR with DF, MI)</b>

**Annual General Meeting of the Dielectric Solids Division**

Donnerstag 17:30–18:00 H25