

AND



JOINT SESSION

Wednesday February 12 th
Opening of SuperFOx – IBS2app joint session
Applications of Supercondutivity (IEEE CSC sponsored session) - Chair G. Celentano
Y. Ma (keynote speaker)
Status of high-field iron-based superconducting wires and tapes
S. Calatroni
Study of HTS coatings for beam impedance mitigation in the FCC
E. Silva
YBCO coated conductors and thin films for high frequency applications in dc magnetic fields
L. MUZZI Superconductors for the Italian Divertor Tokamak Test Facility project
A Morandi
Research status and direction of HTS Fault Current Limiters
Coffee Break
IBS Fundamental Studies - Chair S. Pagano
T. Gorni
Impact of non-local exchange on Iron Pnictides
F. Caglieris
Elasto-transport: a probe for nematic fluctuations in iron-based superconductors
R. Hussain
Magnetic ordering and spin dynamics in LaOFeSe : a La NQR study
F. Bernardini
Evidence of the isoelectronic character of F doping in SmFeAsO $_{1-x}F_x$
Planar defects and vortex pinning in EuRbFeAs iron-based superconductor



MORNING SESSION 1

	Thursday February 13 th
8:30	Opening of IBS2app
	IBS Thin Films and Coated Conductors – Chairs V. Braccini, K. lida
8:40	M. Putti
	The Project PRIN HIBiSCUS: High performance-low cost Iron BaSed Coated condUctorS for high field magnets
8:50	B. Holzapfel (invited speaker)
	Fe-based superconducting coated conductors – preparation, tuning of properties, and recent development
9:10	A. Vannozzi
	Epitaxial La ₂ Zr ₂ O ₇ and Zr-doped CeO ₂ films by chemical solution deposition as buffer layers for Fe(Se,Te) film growth
9:25	G. Sylva
	Fe(Se,Te) Coated conductors on simple RABiTS templates
9:40	A. A. Thomas
	Towards the study of uniaxial strain in epitaxial FeSe _x Te _{1-x} films
9:55	S. Holleis
	Investigation of granularity in FeSe _{1-x} Te _x thin films on various substrates
10:10	Coffee Break
	IBS Wires and Tapes – Chairs A. Ballarino, A. Malagoli
10:40	T. Tamegai (keynote speaker)
	Developments of (Ba,Na)Fe ₂ As ₂ and CaKFe ₄ As ₄ HIP Round Wires
11:10	H. Ogino (invited speaker)
	Characteristics and potential of application for 1144-type iron pnictide superconductors
11:30	S. Imai
	Cold-press formed superconducting joint between Ba _{0.6} K _{0.4} Fe ₂ As ₂ tapes
11:45	V. Vlasenko
	Superconducting properties of the BaFe _{2-x} Ni _x As ₂ wire fabricated by hot gas extrusion method
12:00	Y. Ma and A. Ballarino
	Perspectives for IBS conductors in accelerator magnets
13:00	Lunch



AFTERNOON SESSION 2

	Thursday February 13 th
	Material properties — Chairs C. Ferdeghini, H. Ogino
14:30	F. Kametani (keynote speaker)
	Macroscopic and nanoscopic uniformity and its correlations to intergrain connectivity in K-doped Ba122 polycrystals
15:00	A. Yamamoto (invited speaker)
	Recent progress in the development of Ba122 polycrystalline bulk materials
15:20	K. S. Pervakov
	Synthesis of the bulk sodium-doped SrFe ₂ As ₂ and BaFe ₂ As ₂ by mechanical alloying for applications
15:35	A. Masi
	Role of annealing treatments on microstructure and superconducting properties of polycrystalline Fe(Se,Te)
15:50	R. Sakagami
	Appearance of SmFeAsO as a mother phase of iron-based superconductor during a solid state reaction in the 580° to 980°C
	temperature range
16:05	G. Bioletti
	A detailed investigation into the evolution of J _c vs pressure in Ba122: observation of an optimal pressure and significant
	increases in J _c
16:20	Coffee Break
	IBS Thin Films – Chairs B. Holzapfel, E. Silva
16:50	K. lida (keynote speaker)
	Hydrogen doped NdFeAsO epitaxial thin films with high critical current
17:20	L. Grunewald
	Structural properties of Co-doped BaFe ₂ As ₂ thin films
17:35	G. A. Ummarino
	Optical properties of BaFe _{1.91} Ni _{0.09} As ₂ film analyzed in the framework of multiband Eliashberg theory
17:50	S. Pagano
	Electric Transport Properties of Iron-Based Superconducting Nanowires
18:05	S. K. Chaluvadi
	Structural and Electronic properties of FeSe films grown by PLD
18:20	C. Camerlingo
	Magnon light scattering in iron based chalcogenide films
20:00	Conference Dinner



MORNING SESSION 3

	Friday February 14 th
	Synthesis and properties of IBS single and polycrystals – Chairs L. Gozzelino, T. Tamegai
8:30	S. J. Singh (invited speaker)
0.50	Physical properties optimization of the stoichiometric CaKFe ₄ As ₄ superconductor
8:50	K. Knasanov (<i>Invited speaker</i>) Multiband anisotronic superconductivity in CaKEo. As
9.10	D Torsello (invited speaker)
5.10	London penetration depth anisotropy in CaK(Fe,Ni) ₄ As ₄
9:30	G. Ghiao
	Effects of ion irradiation on 122 and 1144 families of iron-based superconductors, analyzed by a microwave technique
9:45	S. Ishida
	Unique critical current properties in 1144-type CaKFe ₄ As ₄ superconductor
10:00	S. P. Kumar Naik
	Novel CaKFe ₄ As ₄ superconductor synthesis: Effect of annealing and Sn addition on the structure, microstructure and
	superconducting properties
10:15	Coffee Break
	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani
10:45	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer <i>(invited speaker)</i>
10:45	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors
10:45 11:05	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer <i>(invited speaker)</i> Neutron irradiation experiments on iron-based superconductors L. Civale <i>(invited speaker)</i>
10:45 11:05	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets
10:45 11:05 11:25	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker)
10:45 11:05 11:25	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem
10:45 11:05 11:25 11:45	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo
10:45 11:05 11:25 11:45 12:00	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna
10:45 11:05 11:25 11:45 12:00	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna Vortex dynamics and irreversibility line in nearly optimally doped RFeAsO _{1-v} Fx superconductors (R = La, Ce, Sm)
10:45 11:05 11:25 11:45 12:00 12:15	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna Vortex dynamics and irreversibility line in nearly optimally doped RFeAsO _{1-x} Fx superconductors (R = La, Ce, Sm) F. Laviano
10:45 11:05 11:25 11:45 12:00 12:15	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna Vortex dynamics and irreversibility line in nearly optimally doped RFeAsO _{1-x} F _x superconductors (R = La, Ce, Sm) F. Laviano Study of vortex pinning anisotropy in irradiated Ba122 superconductors by quantitative magneto-optical imaging
10:45 11:05 11:25 11:45 12:00 12:15 12:30	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna Vortex dynamics and irreversibility line in nearly optimally doped RFeAsO _{1-x} F _x superconductors (R = La, Ce, Sm) F. Laviano Study of vortex pinning anisotropy in irradiated Ba122 superconductors by quantitative magneto-optical imaging A. Galluzzi
10:45 11:05 11:25 11:45 12:00 12:15 12:30	Pinning and Vortex Matter in IBS – Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna Vortex dynamics and irreversibility line in nearly optimally doped RFeAsO _{1-x} F _x superconductors (R = La, Ce, Sm) F. Laviano Study of vortex pinning anisotropy in irradiated Ba122 superconductors by quantitative magneto-optical imaging A. Galluzzi Flux creep and second magnetization peak effect in type-II superconductors: correlation and universality
10:45 11:05 11:25 11:45 12:00 12:15 12:30	Pinning and Vortex Matter in IBS - Chairs G. Ghigo, F. Kametani M. Eisterer (invited speaker) Neutron irradiation experiments on iron-based superconductors L. Civale (invited speaker) Opportunities in studying vortex pinning and dynamics in large pulsed magnetic fields: how to reach beyond DC magnets G. Grimaldi (invited speaker) Anisotropy in iron-chalcogenide Fe(Se,Te) thin films: still a puzzling problem N. Pompeo Vortex parameters in FeSe _{0.5} Te _{0.5} thin films at microwaves S. Sanna Vortex dynamics and irreversibility line in nearly optimally doped RFeAsO _{1-x} F _x superconductors (R = La, Ce, Sm) F. Laviano Study of vortex pinning anisotropy in irradiated Ba122 superconductors by quantitative magneto-optical imaging A. Galluzzi Flux creep and second magnetization peak effect in type-II superconductors: correlation and universality Closure