

ICAP 2012

The 23rd International Conference
on Atomic Physics

23-27 July 2012
Ecole Polytechnique
Palaiseau - France



Organisers

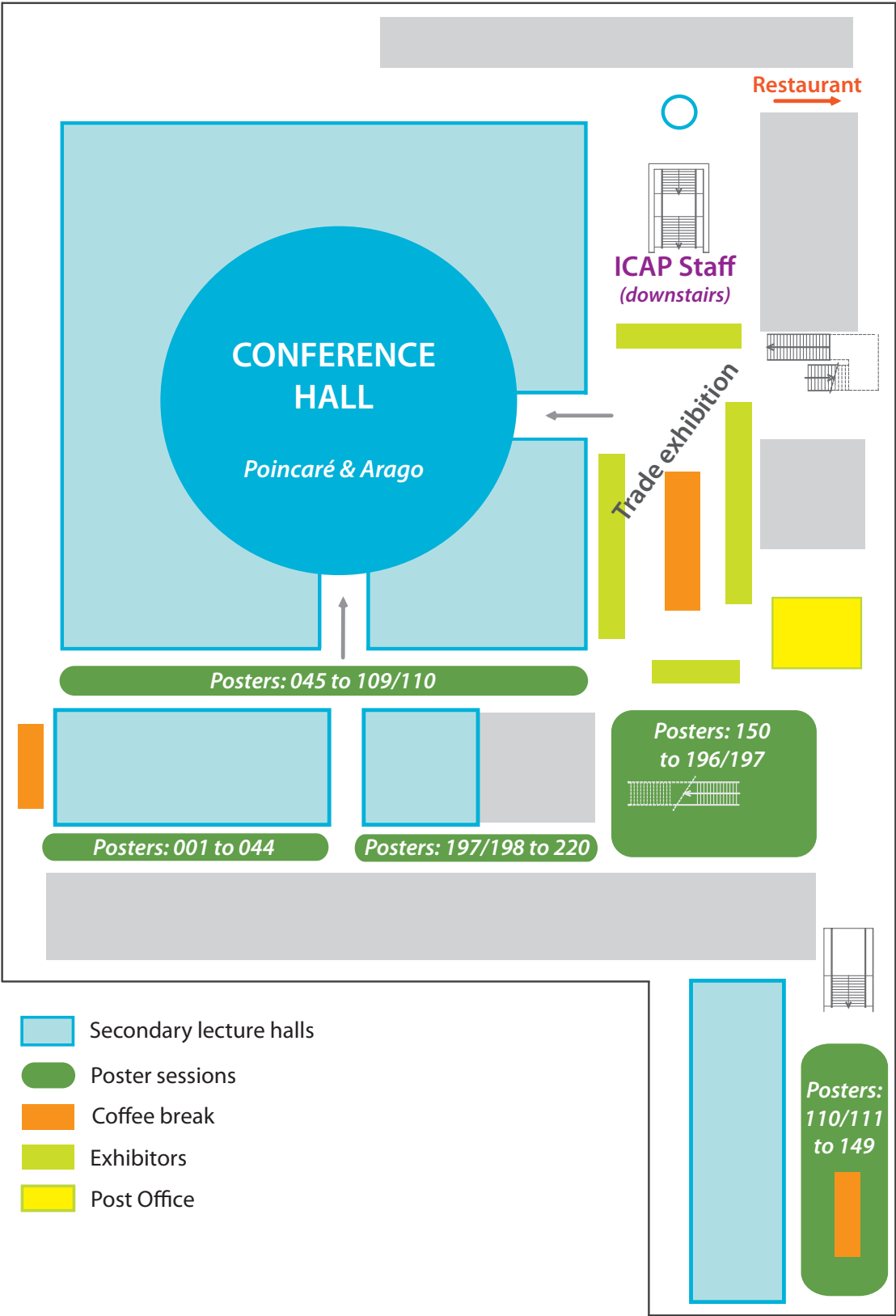


ICAP 2012

Abstracts

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The 23rd International Conference
on Atomic Physics

Sunday 22		Monday 23	Tuesday 24	Wednesday 25	Thursday 26	Friday 27	
9:15 - 10:00		Bose gases: Ketterle (45')	Precision measurements: Ye (45')	Cavity QED: Haroche (45')	Atoms in optical lattices: Bloch (45')	Ultrafast phenomena: L'Huillier (45')	9:15 - 10:00
10:00 - 10:30		Aspect (30')	Schnabel (30')	Rempe (30')	Spielman (30')	Landsman (30')	10:00 - 10:30
10:30 - 11:00		Campbell (30')	De Natale (30')	Vuckovic (30')	Jaksch (30')	Bucksbaum (30')	10:30 - 11:00
11:00 - 11:30		Poster session (Coffee break)	Poster session (Coffee break)	Coffee break	Poster session (Coffee break)	Coffee break	11:00 - 11:30
11:30 - 12:15		Poster session (Lunch)	Poster session (Lunch)	Lam / Simonet / Thompson / Mitchell (4 x 20')	Poster session (Lunch)	Beyond Atomic Physics: Lukin (45')	11:30 - 12:15
12:15 - 12:45		Poster session (Lunch)	Poster session (Lunch)	Lunch	Poster session (Lunch)	Lunch	12:15 - 12:45
12:45 - 14:00		Poster session	Poster session		Poster session		12:45 - 14:00
14:00 - 14:45		Poster session	Poster session		Poster session	Ha (30')	14:00 - 14:45
14:45 - 15:30		Fermi gases: Jin (45')	Quantum information: Monroe (45')		Many body physics: Ueda (45')	Kippenberg (30')	14:45 - 15:30
15:30 - 16:00		Zwierlein (30')	Lanyon (30')		Jochim (30')	Coffee break	15:30 - 16:00
16:00 - 16:30		Salomon (30')	Kuhr (30')		Shlyapnikov (30')	Borot / Treutlein / Orozco (3 x 20')	16:00 - 16:30
16:30 - 17:00		Coffee break	Doyle / Darquié / Vassen (3 x 20')		Coffee break	END	16:30 - 17:00
17:00 - 17:45		Atomic tests: Hinds (45')	Coffee break		Lev / Ferlaino / Vale (3 x 20')		17:00 - 17:45
17:45 - 18:15	Registration	Hangst (30')	Round table "1985-1995, from atom cooling and trapping to BEC"				17:45 - 18:15
18:15 - 18:45	Welcome event	Flambaum (30')	General conference by M. Spino, President of the CERN Council				18:15 - 18:45
20:00 - 23:00			Jazz evening		Conference dinner		20:00 - 23:00



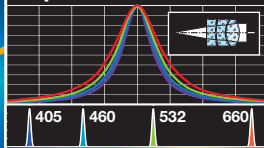
Laser Beam Coupler 60SMS-1-4-...

Inclined fiber
coupling
axis



Fiber with End caps
Reduced power density at
fiber end face (factor 100)

Apochromatic fiber
optics 400 – 660 nm



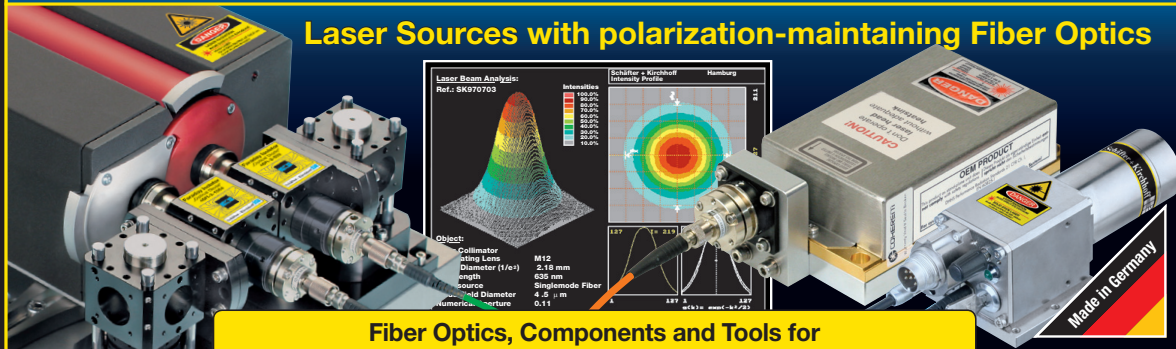
PM-Fiber
PMC-...

Fiber
Collimator
60FC-...

Micro focus 5M...

Made in Germany

Laser Sources with polarization-maintaining Fiber Optics



Fiber Optics, Components and Tools for Fundamental Research

Quantum Optics - Biophotonics - Atmospheric Physics

Application:

Fiber Port Clusters for
Postcard-sized replacement
of a 1m² breadboard setup



In global use:

	Italy		Republic of Korea
	Austria		Germany
	France		USA
	UK		India
	PR China		Switzerland

Components and Tools
for Physics and (future)
Nobel Laureates

Fiber port clusters made by Schäfter+Kirchhoff take the optical power carried by a polarization-maintaining singlemode fiber and split it into multiple polarization-maintaining singlemode fibers with high efficiency and variable splitting ratio.

Dichroic systems available for splitting and combining different wavelengths.

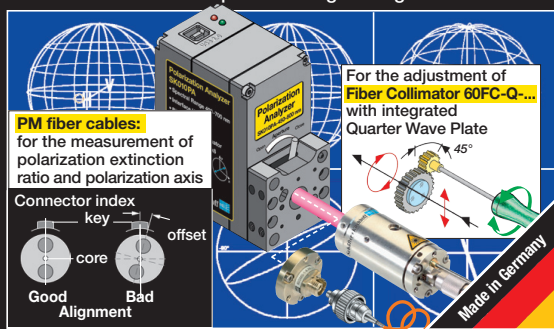
Made in Germany

Fiber Collimator 60FC-Q-... / 60FC-E-...
Generation of circular polarized laser radiation
with integrated Quarter Wave Plate



Polarization Analyzer Series SK010PA-...

USB 2.0 Interface • Multiple Wavelength Ranges 350 – 1600 nm



For the design, production and global distribution of modular and customizable laser sources, fiber optics and line scan camera systems for industrial, scientific and even extra-terrestrial applications.

Schäfter+Kirchhoff
OPTICS, METROLOGY, AND PHOTONICS GmbH

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