

FROM RESEARCH TO INDUSTRY



WP 2: ARC DESIGN AND LATTICE INTEGRATION

EuroCirCol kick-off meeting 3-4 June 2015 | Antoine CHANCE

WORK REPARTITION

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Participant	CERN	CEA	CNRS	TUD	KEK
Person.months	90	108	64	84	12
Task 2.1: Work Package Coordination	X	X			
Task 2.2: Develop optimized arc lattice	X	X			
Task 2.3: Study dynamic aperture	X	X			
Task 2.4: Study single beam current limitation	X			X	
Task 2.5: Understand and control impact of electron cloud effects	X				X
Task 2.6: Develop optics concept for collimation systems	X		X		

Last name	First name	Institute	Description of work
CHANCE	Antoine	CEA	Task leader Arc optics Lattice integration
DALENA	Barbara	CEA	Arc optics Lattice Integration
PAYET	Jacques	CEA	Arc optics Lattice integration
BARTMANN	Wolfgang	CERN	Extraction/injection insertion optics
HOLZER	Bernhard	CERN	Arc lattice optics

1 post-doctoral position financed by EuroCirCol (3 years) at CEA to work on task 2.2 and Task 2.3.

Recruitment for October 2015.

Last name	First name	Institute	Description of work
CHANCE	Antoine	CEA	Dynamic aperture studies
DALENA	Barbara	CEA	Task leader Dynamic aperture studies
PAYET	Jacques	CEA	Dynamic aperture studies
HOLZER	Bernhard	CERN	Dynamic aperture studies

1 post-doctoral position financed by EuroCirCol (3 years) at CEA to work on task 2.2 and Task 2.3.

Recruitment for October 2015.

Last name	First name	Institute	Description of work
BOINE-FRANKENHEIM	Oliver	TUD	Task leader Impedance studies
NIEDERMAYER	Uwe	TUD	Impedance studies
PETROV	Feder	TUD	Impedance studies
SALVANT	Benoît	CERN	Impedance studies

Last name	First name	Institute	Description of work
OHMI	Kazuhito	KEK	Task leader Electron cloud studies
YAMAMOTO	Akira	KEK	Electron cloud studies
METHER	Lotta	CERN	Electron cloud studies
RUMOLO	Giovanni	CERN	Electron cloud studies

Last name	First name	Institute	Description of work
BIARROTTE	Jean-Luc	IPNO (CNRS)	Task leader Collimation optics
LACHAIZE	Antoine	IPNO (CNRS)	Collimation optics
BAMBADE	Philip	LAL (CNRS)	Collimation tracking
CHANCE	Sophie	LAL (CNRS)	Collimation tracking
FAUS-GOLFE	Angeles	Seconded at LAL by IFIC	Collimation tracking
FIASCARIS	Maria	CERN	Collimation studies
REDAELLI	Stefano	CERN	Collimation studies

1 post-doctoral position financed by EuroCirCol (2 years + 1 year by CNRS) at LAL to work on task 2.6 and more precisely collimation tracking studies.
Recruitment for October 2015.

- **14:00 - 15:30 Work for the Extended Straight Section**
 - 14:00 Welcome
 - 14:15 Collimation
 - 14:30 Review on the collimation optics
 - 14:45 Extraction section optics
 - 15:00 Discussions
- **16:00 - 17:30 Common session, basic parameters**
 - 16:00 Status and needs for the dynamic aperture calculations
 - 16:20 WP3 (Experimental Insertion Region Design)
 - 16:40 WP5 (High Field Accelerator Magnet Design)

- **09:00 - 10:30 Common session, WP2 WP4**
 - 09:00 Aperture definition of the beam pipes
 - 09:20 Electron cloud status
 - 09:40 Impedance status
 - 10:00 Discussions
- **11:00 - 12:30 Common session, WP2 WP3**
 - 11:00 Status of the IR optics
 - 11:20 Collimation in the IR
 - 11:40 Interface between the dispersion suppressor and the IR
 - 12:00 Discussions
- **14:00 - 15:30 WP2, 2nd session**
 - 14:00 Status and plans of the arc optics and of the optics integration
 - 14:20 Work repartition
 - 15:00 Tentative planning
- **16:00 - 17:30 Plenary discussion**
 - 16:00 WP2 summary
 - 16:15 WP3 summary
 - 16:30 WP4 summary
 - 16:45 WP5 summary

