

Proposals for changes in 2016

New JUAS director

The present JUAS director would like to step down and proposes the following scenario to be approved by the Advisory Board:

Philippe Lebrun (CERN) starts as JUAS Deputy Director from April 2015.

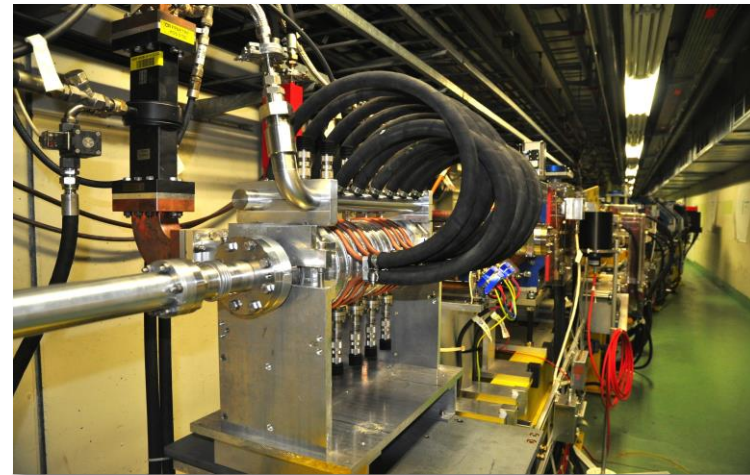
Philippe becomes member of the JUAS Selection Committee together with Elias Métral and Marco Bozzo.

Philippe will become JUAS Director from April 2016, following the Advisory Board meeting.

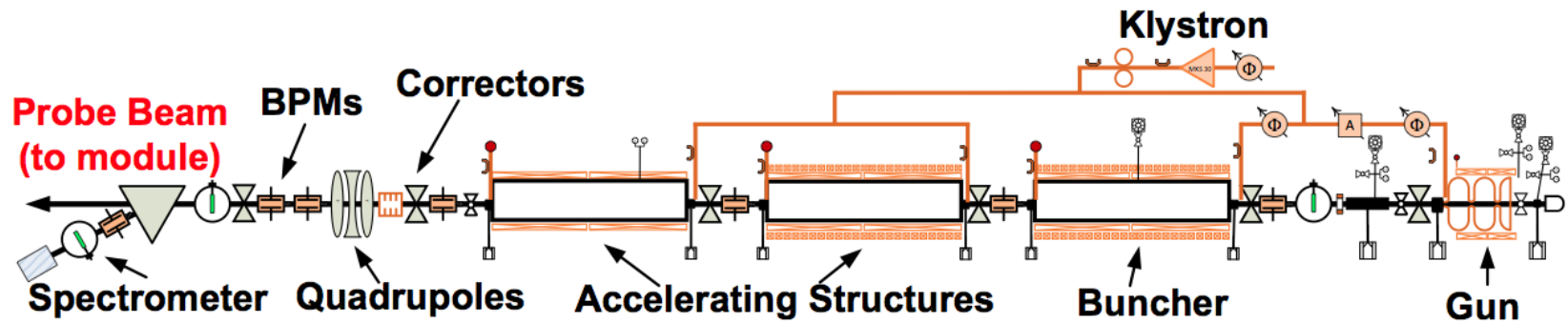
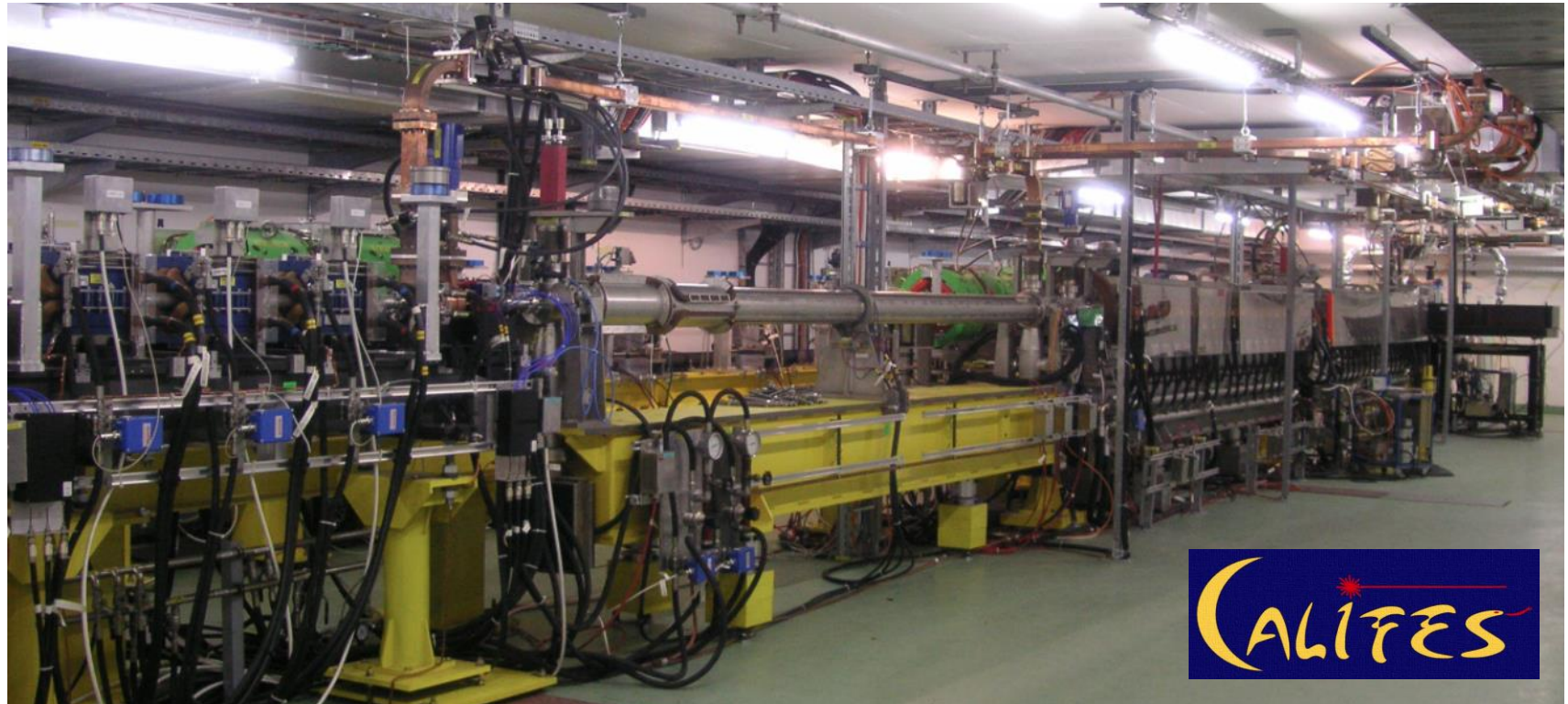
Proposal to work on CTF3 (CLIC Test Facility 3) at CERN

CERN electron beam facility(ies) beyond CTF3

R. Corsini,
E. Adli, P. Burrows, T. Lefevre, B. Salvant, S. Stapnes...



CALIFES inside CTF3



Rationale for uses of CTF3 hardware (CALIFES) beyond 2016

- CLIC Collaboration interest: keep beam test capability for CLIC (diagnostics, components...) locally at CERN after CTF3 stop
 - Some additional points:
 - Possibility of beam tests during long shut-downs
 - Keep experimental electron expertise alive at CERN, including laser and photo-cathodes – link with AWAKE
 - Complement high-gradient X-band activities for X-FELs, medical...
 - Provide training ground for young accelerator physicists at CERN and collaborating institutes
- Find synergies with other potential partners (project/groups within and outside CERN) in order to gather enough resources and get approval from CERN management

=> Proposals discussed in the point: “Changes in 2016”

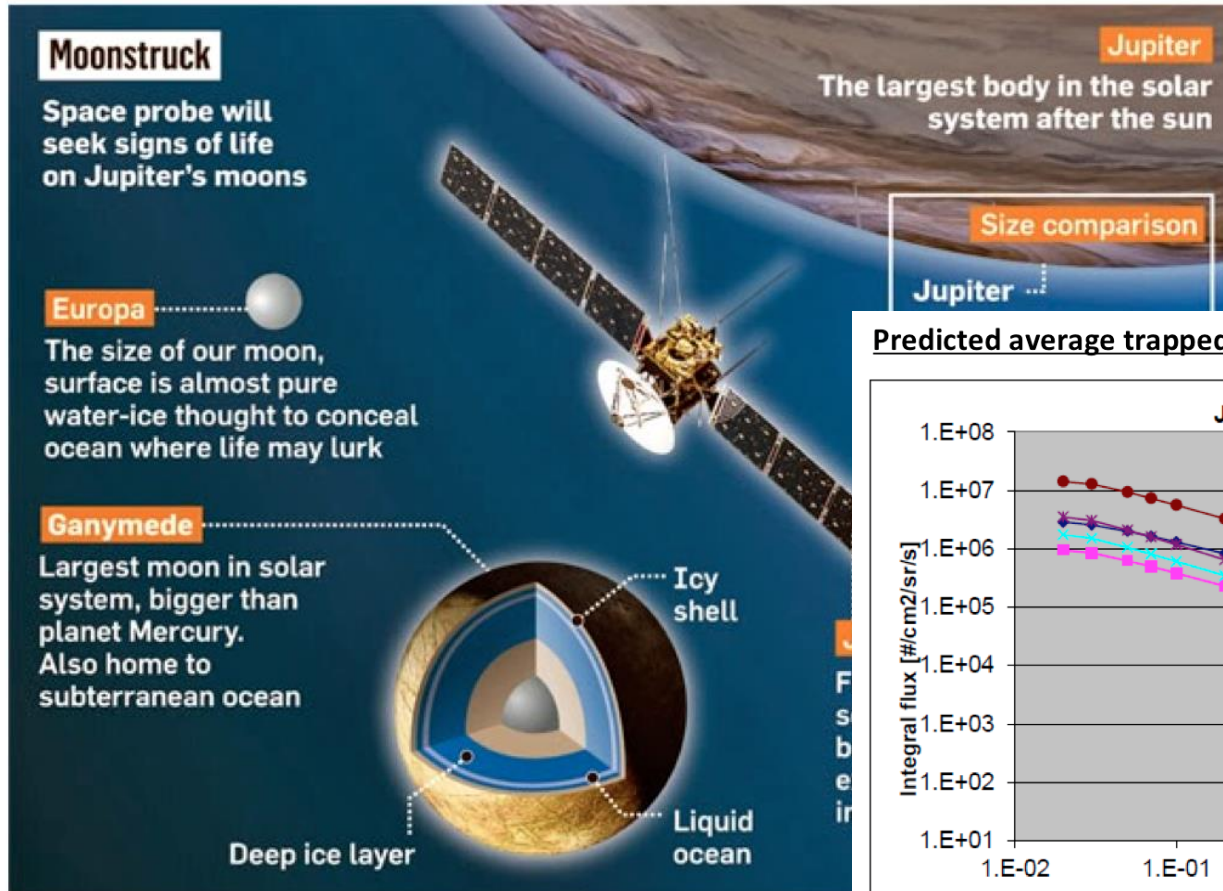


The JUICE Mission

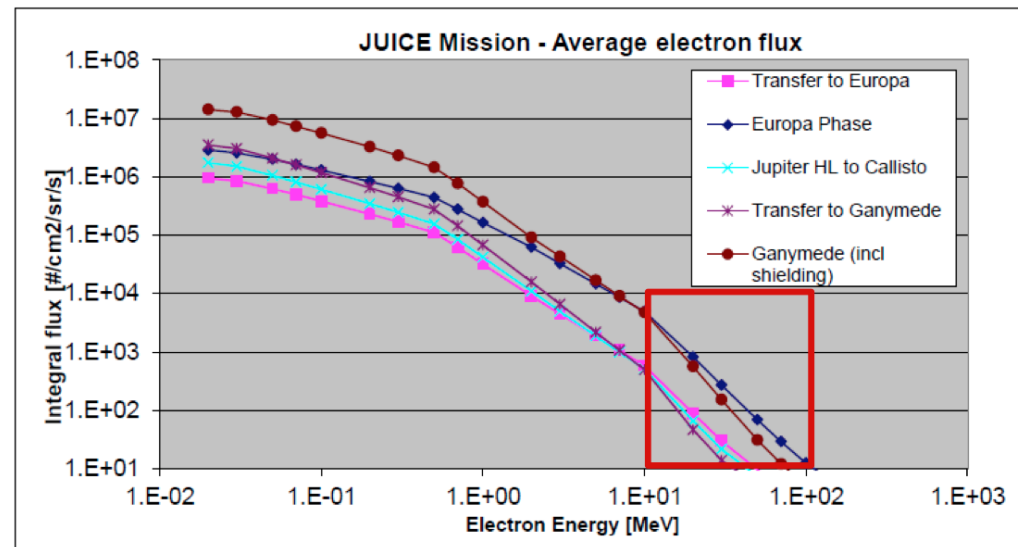


M. Brugger,
R. Garcia Alia

- Characterise Ganymede, Europa and Callisto as planetary objects and potential habitats
- Explore the Jupiter system as an archetype for gas giants



Predicted average trapped electron flux per phase of the JUICE mission.



Proposals for JUAS students in 2016

The CERN CTF3 facility is willing to accept JUAS students to “work” with the electron beam on a real machine.

- 1) Make groups in parallel during the practical days at CERN.
- 2) Use days of the exam weeks.
- 3) Work on Saturdays.
- 4) Other ?

Proposal for 2015

**Repeat one day meeting at CERN as in 2014,
for all JUAS lecturers**

**Propose one day meeting at CERN
for all JUAS sponsors**

- following lecturers meeting
- following a specific event (workshop, conference, exhibition,...)
- other ...

JUAS students from partner universities

15 Universities	2012	2013	2014	2015
Universitat Politècnica de Catalunya	0	0	0	1
Universitat Autònoma de Barcelona	0	1	1	0
Technische Universität Darmstadt	4	5	4	5
Université Joseph Fourier Grenoble	0	1	1	1
Grenoble INP	2	3	5	5
Karlsruher Institute für Technologie	0	1	0	0
Università degli Studi di Napoli "Federico II"	0	0	0	1
Università degli Studi di Roma "La Sapienza"	12	9	9	4
Technische Universität Berlin	1	0	0	0
Università degli Studi di Genova	1	0	0	0
Universitat de València	1	1	0	1
University of Liverpool	1	3	1	0
Universität Rostock	2	1	0	1
Université Paris Sud - Orsay	not yet	3	1	2
Oxford university	not yet	not yet	0	0

JUAS Advisory board members

6 Institutes and 11 members

ESI / JUAS

CERN

ESRF

PSI

GSI

DESY

We have 19 institutes supporting financially JUAS:

Shouldn't we invite all of them ?

Changes for JUAS lecturers

?

Proposed seminars in 2015

Titles	Suggested speakers	Institutes
<i>///////// Already agreed</i>		
Sciences and Art of Inventiveness	Andrei Seryi	JAI / Oxford
Free Electron Lasers	Eduard Prat	PSI
<i>Seminars with max support (in decreasing order)</i>		
Laser Plasma acceleration	Ralf Assmann Victor Malka	DESY LOA – Paris
Future high energy colliders	Louis Rinolfi Frédéric Bordry	CERN CERN
Techniques of beam cooling	Markus Steck Hakan Danared	GSI ESS - Lund
History of particle accelerators as tools for discoveries	Philippe Lebrun Ugo Amaldi	CERN Milano University
<i>Seminars as spares with decreasing support</i>		
Accelerator Driven System	Jean Luc Biarrotte Dirk Vandeplassche	IPNO – Orsay SCKCEN - Belgium
Accelerators for neutrino physics	Elena Wildner Roy Aleksan	CERN CEA
Accelerators for hadron therapy	Steve Myers Alberto Degiovanni	CERN EPFL / Lausanne
Impact of the Higgs boson discovery on the future of high-energy particle accelerators	Richard Jacobsson	CERN
Accelerator Mass Spectroscopy	Walter Kutschera Gunther Korschinek Régis Braucher	Vienna University T. U. Munchen CNRS - Marseille
<i>Radioactive Ion Beam Facilities</i>	<i>Oliver Boine-Frankheim Jean-Michel Lagniel</i>	<i>Darmstadt / GSI CEA –Saclay</i>

Seminars 2016

- Same seminars ?
- Propose the ones not retained in 2015 ?
- New seminars ?
- Increase the number ?

Review the weeks of exams

		WEEK 5				
		Monday Feb 9 th	Tuesday Feb 10 th	Wednesday Feb 11 th	Thursday Feb 12 th	Friday Feb 13 th
09:15			EXAMINATION Synchrotron radiation <i>Written session</i>	EXAMINATION Longitudinal beam dynamics <i>Written session</i>	EXAMINATION Transverse beam dynamics <i>Written session</i>	
10:45						
11:00			Coffee Break	Coffee Break	Coffee Break	
			EXAMINATION Particle optics <i>Written session</i>	EXAMINATION Linear imperfections <i>Written session</i>	DISCUSSION SUMMARY of JUAS lectures	
12:30						
					BUFFET END OF 1 ST JUAS SESSION	
14:00						

		WEEK 10				
		Monday March 16 th	Tuesday March 17 th	Wednesday March 18 th	Thursday March 19 th	Friday March 20 th
09:15			EXAMINATION Beam Instrumentation <i>Written session</i>	EXAMINATION Magnets <i>Written session</i>	EXAMINATION RF <i>Written session</i>	09:15
10:45						10:45
11:00			Coffee Break	Coffee Break		11:00
			EXAMINATION Radiation safety <i>Written session</i>	EXAMINATION Particle sources <i>Written session</i>	DISCUSSION SUMMARY of JUAS lectures	
12:30						12:30
13:00					BUFFET END OF 2 ND JUAS SESSION - END OF THE SCHOOL 2015	13:00
14:00						14:00

Alternative dates for JUAS school

- Request from University of Catalunya
 - Constraints from European universities
 - Overlaps with other schools, events,
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- Another session in the year
 - Dedicated school on particular topic in June / July

Follow-up of JUAS students

A long process

Next JUAS Advisory Board meeting

Tentative proposal for 2016

JUAS Advisory Board annual meeting

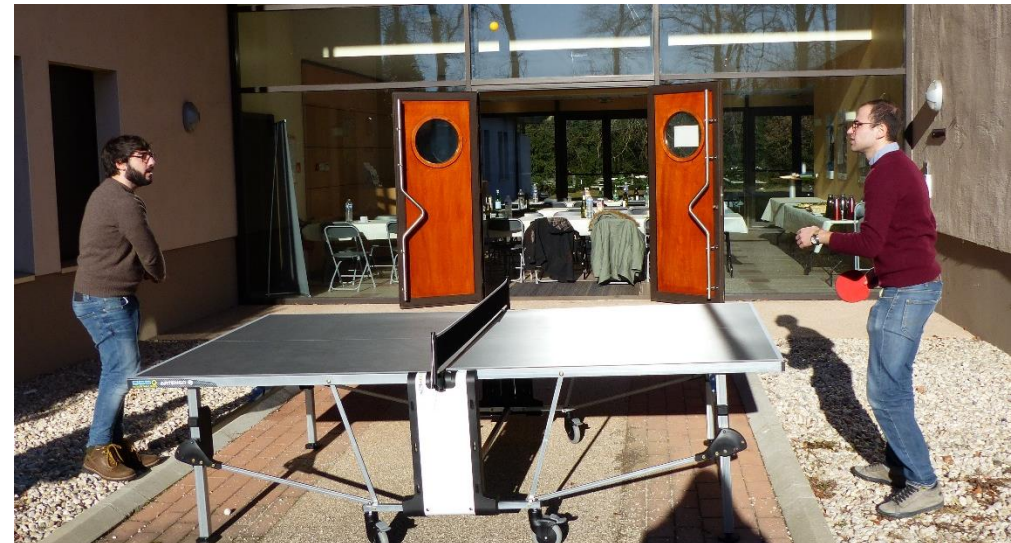
Place: Naples University

Date: 21st and 22nd April 2016

Student life in Archamps



A friendly atmosphere, in an international environment, is a factor of success



Any Other Business

Thank you very much for your attention



and your wonderful collaboration