

DMLab: CNRS Helmholtz Dark Matter Lab

CNRS/IN2P3 and 3 Helmholtz Centers DESY, GSI and KIT

Long Tradition of French-German Collaboration

- CNRS/IN2P3 with DESY:
 - 1980s CELLO@PETRA
 - ATLAS and CMS
 - GDE for ILC
 - XFEL
 - Plasma acceleration
- CNRS:
 - International Research Lab (IRL)
 - Bilateral Agreement
 - Creation of a joint lab (=Institute) in a Foreign Country
 - 5 years (renewable)



The Formalities

Formal

Difficulties

- Language: English (or any language) is not unambiguous
- “A signs on behalf of DMLab”:
 - French jurist: DMLab is not a legal entity, but A is
 - German jurist: Since A signs on behalf of DMLab, DMLab becomes de facto a legal entity
- Lab (electronic) notebooks requirements and patents
- Michel Ange’s concept of a “lab” incompatible with all IN2P3 labs

MoU

- Grueling 3 years.....
- Final signature: May 17, 2023

Press relases [Summary](#)

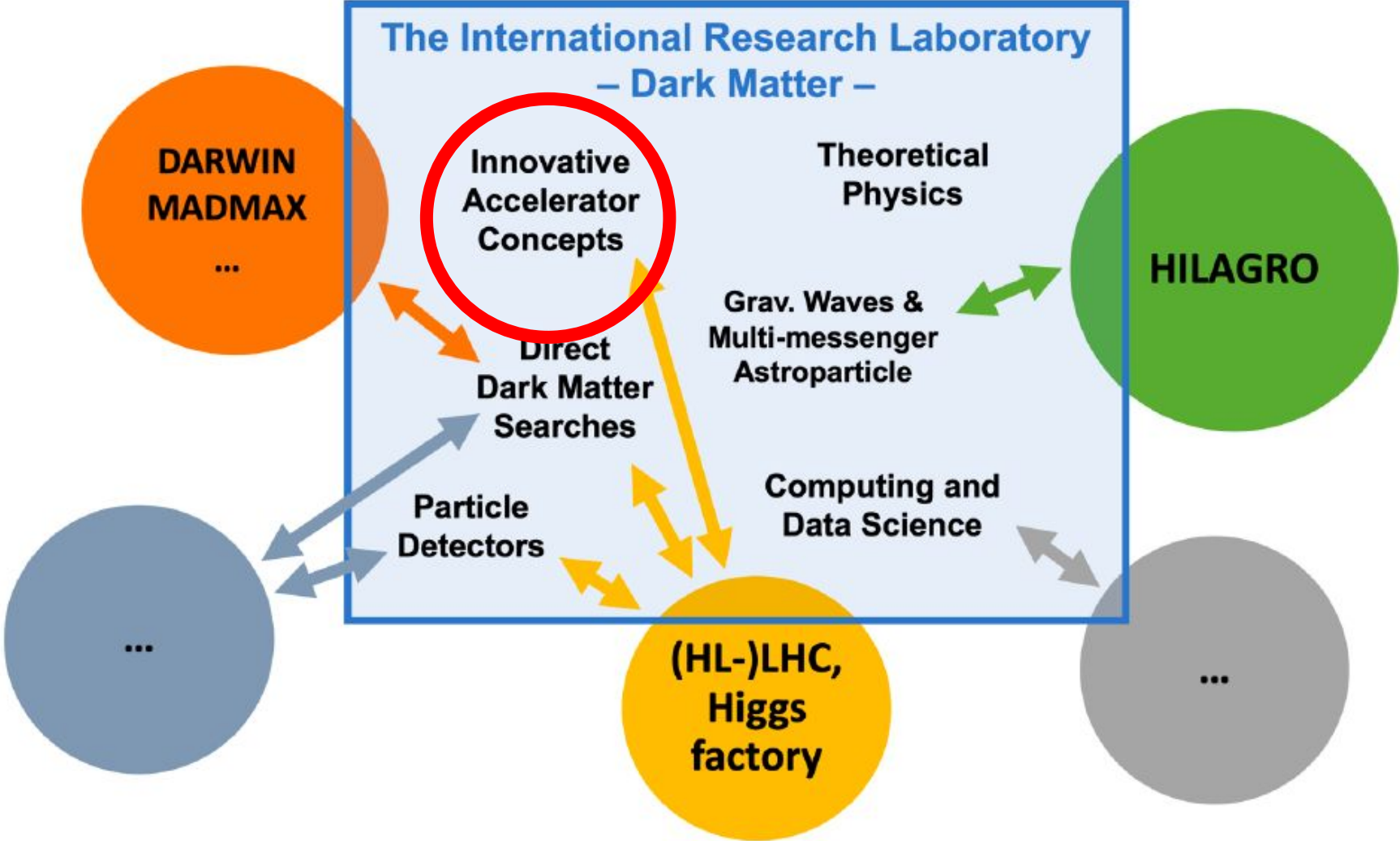
- 4 press releases: CNRS, DESY, GSI and KIT
- +1: MPP

Spin-off:

- PR was picked up by journalist of *Sciences et Avenir* (like P.M.)

Scientific Themes of DMLab

Organised around the central theme dark matter



IRL tasks:

- develop new ideas
- across topic boundaries
- glued by dark matter

Formally

- living hub at DESY
- living at GSI
- living at KIT
- through long term visits (sabbaticals/expatriation= affectation)
- workshops broad and narrow
- common work
- try for common funds

Institutions

Governance

- Directorate (Director and CoDirector)
 - Dirk Zerwas (CNRS) and Thomas Schoerner (DESY)
- Steering Committee
- Scientific Projects Board
- International Advisory Committee

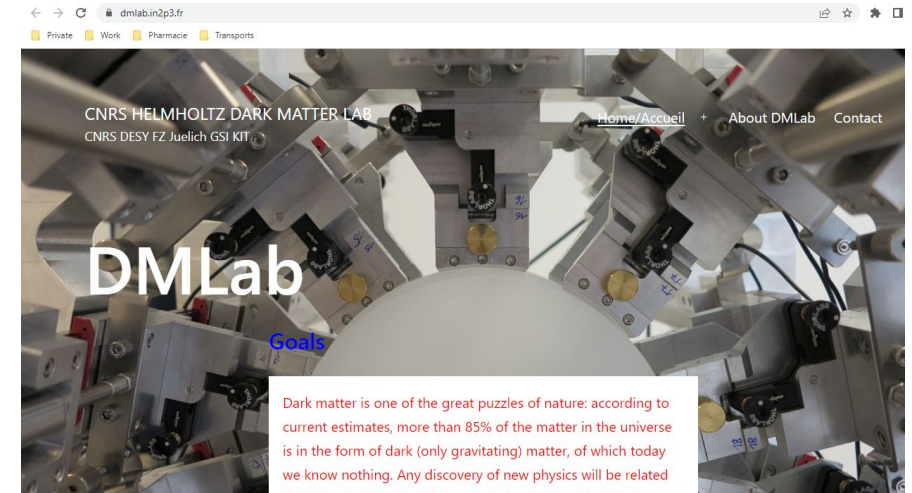
Name	Institution	Function
Reynald Pain / Berrie Giebels	IN2P3	Director
Patrice Verdier (co-chair)	IN2P3	
Vincent Poireau	IN2P3	
Laurent Vacavant	IN2P3	
Beate Heinemann	DESY	Director of particle physics
Hans Ströher (co-chair)	FZ Jülich	Director of IKP2
Yvonne Leifels	GSI	Deputy research director
Marc Weber	KIT	Head of division V

- Website

- Open mailing list: dmlab-general@desy.de

To subscribe:

- mail to Dirk or Thomas or mail to:
- sympa@desy.de
- BODY or Subject:
SUBSCRIBE dmlab-general FirstName LastName



The DMLab SPB

Members

Topic	Project	PI France	PI Germany
Direct Searches	Darwin	Julien Masbou (Subatech)	Klaus Eitel (KIT)
	MadMax	Fabrice Hubaut (CPPM)	Axel Lindner (DESY)
GW and MM Astroparticles			
Accelerators	Plasma Wakefield	Nicolas Delerue (IJCLab)	Jens Osterhoff
	Plasma Hadron	Medhi Tarisien (CENBG)	Vincent Bagnoud (GSI)
Computing and ML	Precision and ML	David Rousseau (IJCLab)	Gudrun Heinrich (KIT)
	High Precision for Dark Matter	Fawzi Boudjema (LAPTH)	Peter Marquard (DESY)
Particle Detectors	Tracking Detectors	Marc Winter (IJCLab)	Ingrid-Maria Gregor (DESY)
	Calorimeters	Roman Poeschl (IJCLab)	Katja Krueger (DESY)
	Germanium Detectors	Gilbert Duchene (IPHC)	Juergen Gerl (GSI)
Theory	Dark Matter, Gravity, Cosmology	Adam Falkowski (IJCLab)	Geraldine Servant (DESY)
	Dark Photons	Juergen Brunner (CPPM)	Peter Marquard (DESY)
	DM Gravity Cosmology	Daniele Steer (APC)	Thomas Konstandin (DESY)
	SuSpect takes a SUSY-Hit	Jean-Loic Kneur (L2C)	Margarete Muehleitner (KIT)
	Probing Strongly Interacting BSM	Giacomo Cacciapaglia (IP2I)	Christophe Grojean (DESY)
	Strangeness Nuclear Matter	Joerg Aichelin (Subatech)	Elena Bratkovskaya (GSI)

DMLab and you

Travel to Germany

- DMLab has funds for travel of CNRS personnel to DESY, KIT, GSI
- Unit base: 1 week for work
- Requests through Nicolas+Jens

Travel to France

- DESY pledged to fund DMLab ask Thomas Schoerner

Sabbaticals

- Eligible: CNRS permanent personnel (caevat Institute approval necessary: IN2P3 director or INP director)
- duration: 1 year minimum (overhead 6 months to 1 year)

Funding requests DFG-ANR

- Nicolas Delerue was successful in the past
- 2023-2024: lead DFG (call not yet out,N-2: [DFG-ANR 2024](#) and the instructions: [Instructions 2022](#)
 - 36 months maximal length
 - submission to DFG (elan) **and** ANR with the **same** acronym
 - Likely deadline Mid-January 2024 (day N-1 for ANR)
 - overleaf has a DFG [Template](#) (needs to be checked against requirements)
 - Thomas and Dirk can provide a “support statement” (let us know)

Funding requests IEA ([International Emerging Actions](#))

- CNRS side 2 years 5-7kEuro for travel
- Deadline September 28