



**UNSAM**  
UNIVERSIDAD  
NACIONAL DE  
SAN MARTÍN

**HELMHOLTZ**  
RESEARCH FOR GRAND CHALLENGES



# Achieving More Together

Johannes Blümer and Alberto Etchegoyen

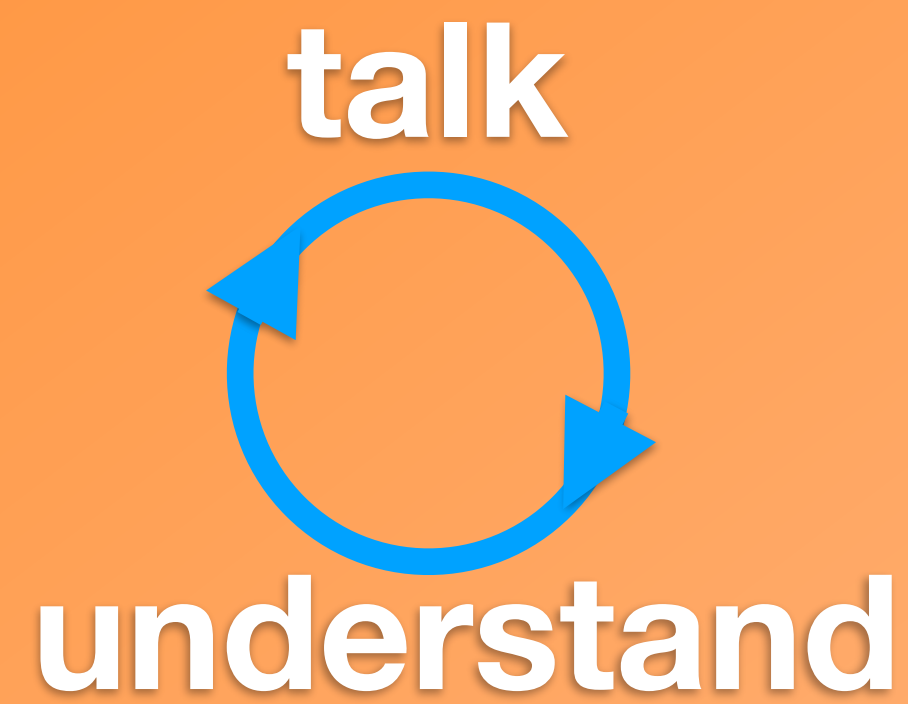
DDAp, DDEIT and HIRSAP Meeting

UNSAM, November 22, 2023



# “Achieving More Together...”

a good portion of empathy...

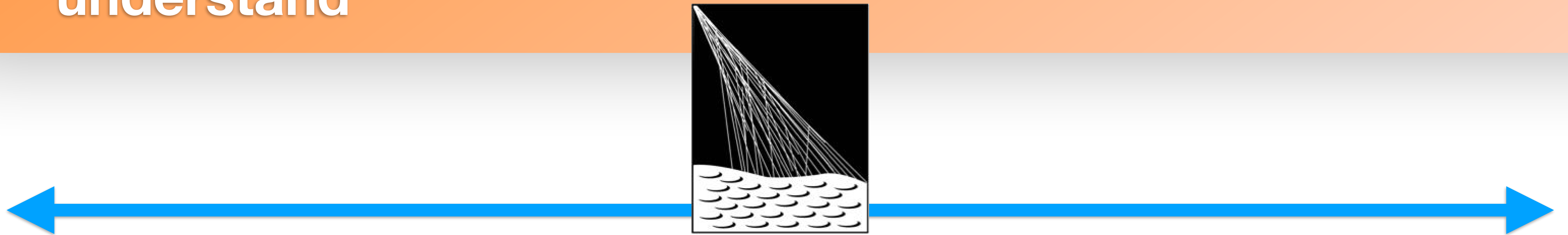


initiate

opportunities

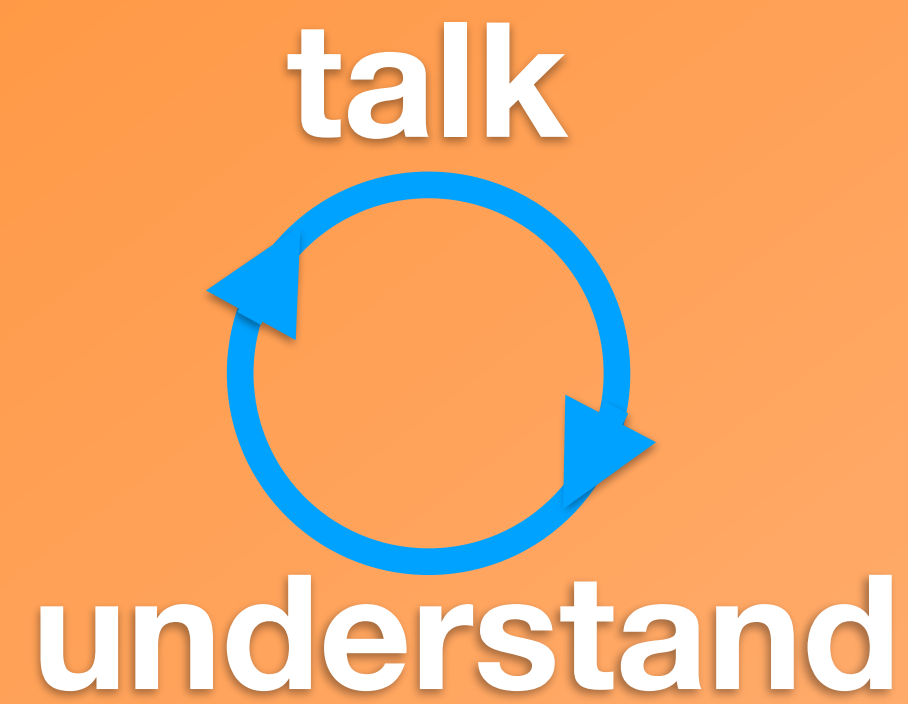
plan

do!



# “Achieving More Together...”

a good portion of empathy...

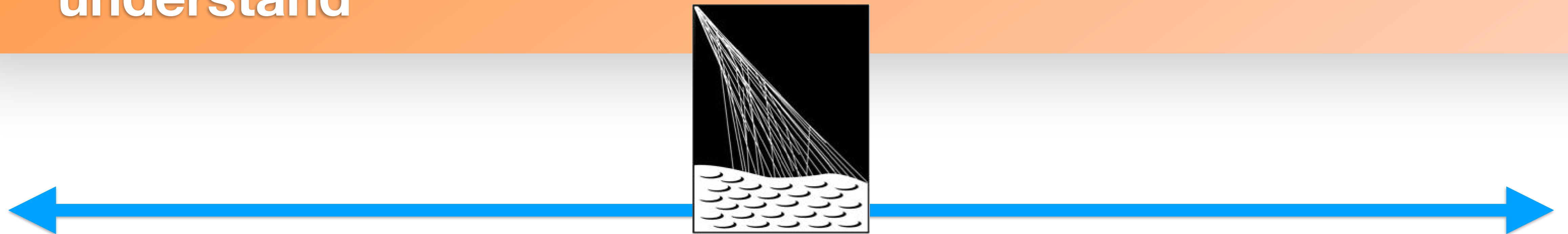


initiate

opportunities

plan

do!



**ITEDA**  
2009

**DDAp**  
2011

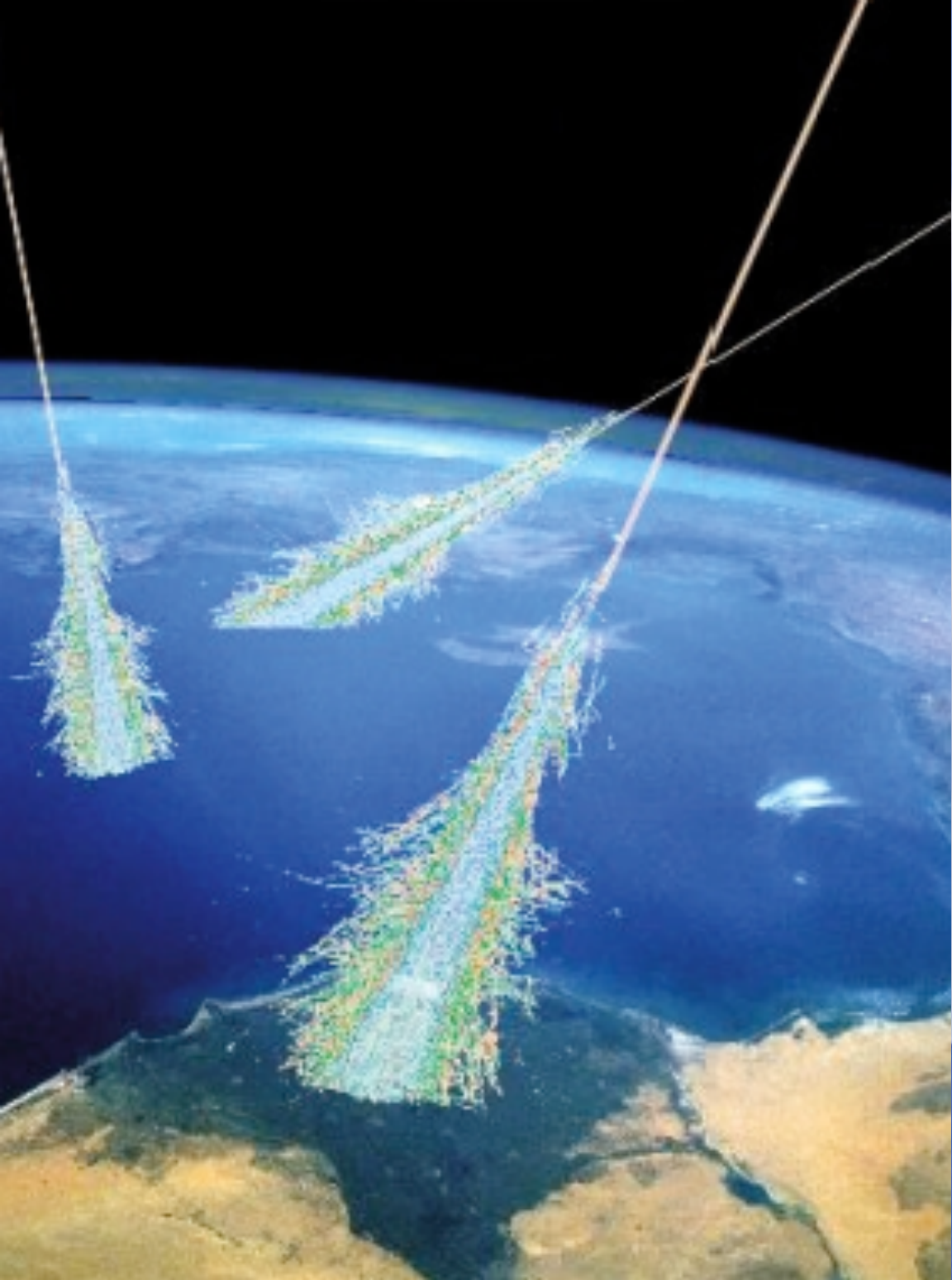
**HIRSAP**  
2018

**SPUK**  
2018

**DDEIT**  
2020

**IAP**  
2020

**...next...?**  
2023 –



2015

# Signature Ceremony of International Agreement for the Pierre Auger Observatory



**ITEDA**  
2009

**DDAp**  
2011

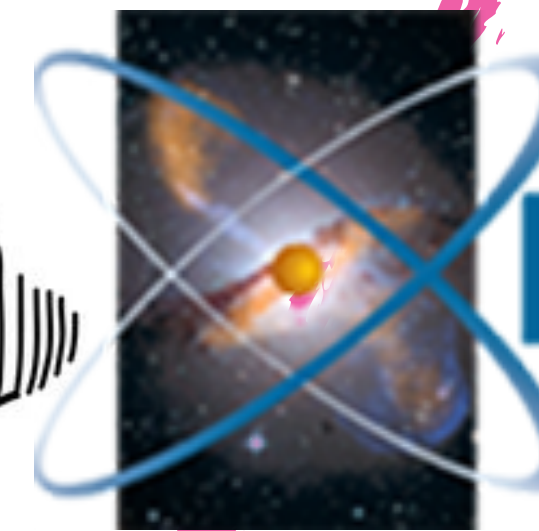
**HIRSAP**  
2018

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**IAP**  
2020

**...next...?**  
2023 –



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...next...?  
2023 –



(signed 2013)



David Schmidt Ana Botti Nicolás González

**Coherent** research approach of school

**Interdisciplinary** approach from hardware development to data analysis

Cutting-edge scientific work with **joint supervision**

**Structured courses** on broader and more specialized topics

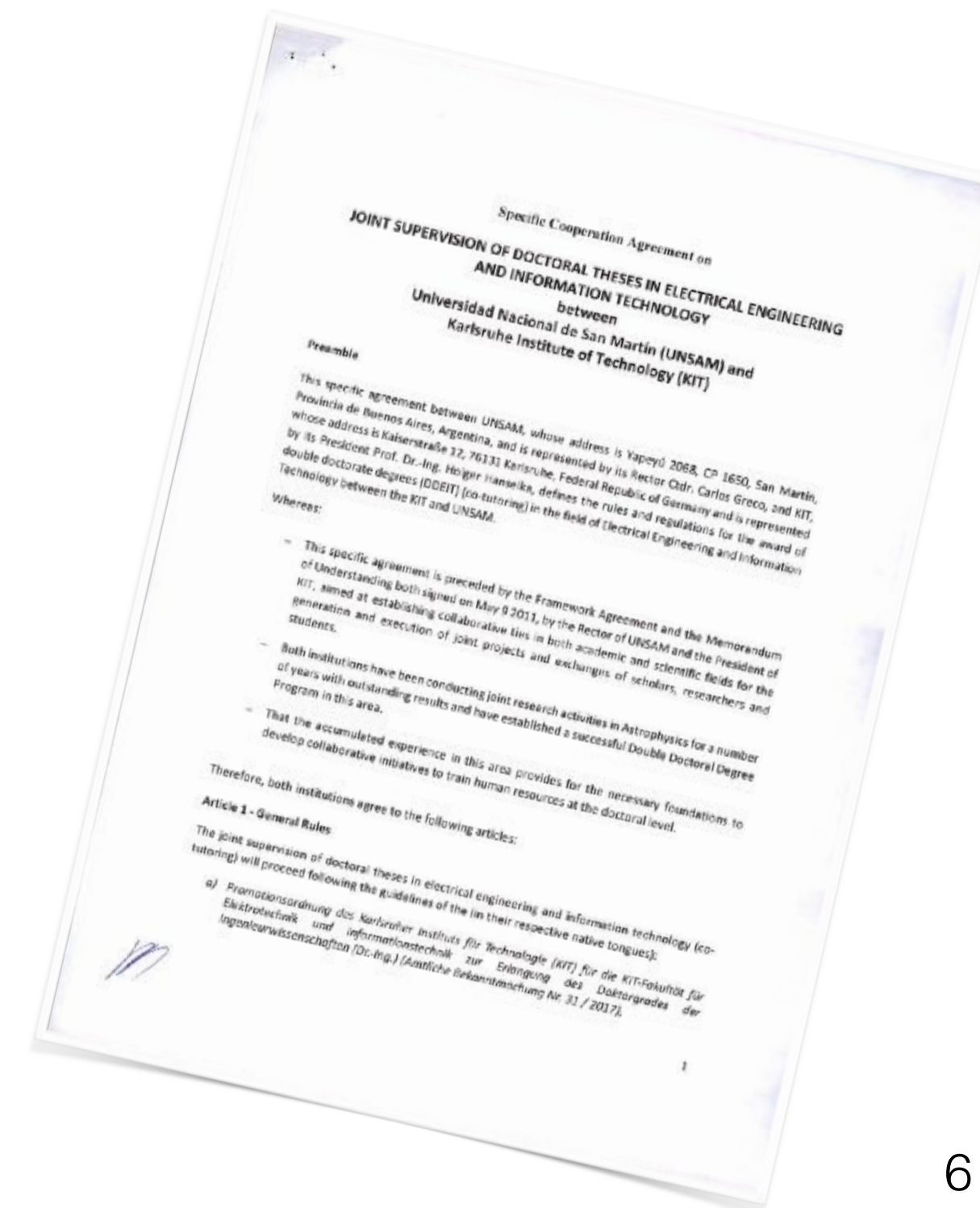
Mobility and intercultural exchange – **DDAp: 2 x 6 months, DDEIT: 18 months** at partner institute

**Soft skills** and career development courses

**joint PhD examination** at one of the partner institutes

## DDEIT

Double Doctoral degree  
in Electrical Engineering  
and Information Technology  
(signed July 2020)



Doctor of Natural Sciences  
Doctor of Engineering  
Sciences



Doctorado en Astrofísica  
Doctorado en Ciencias  
Aplicadas y de la Ingeniería



Mobility funding (65 k€/yr per partner)

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2023 –

From the Helmholtz web:

Helmholtz International Research Schools  
Cutting-edge research thrives on the exchange of ideas - even across national borders. (...) We have founded many of these schools together with universities and international partners. **They offer excellent supervision, practical training and tailored career support.**

Up to 25 doctoral students focus together on one research topic in the schools. This way, they gain important experience in scientific exchange and also expand their professional and personal qualifications through teamwork. In such wise, our graduates are optimally prepared for a career both within and outside academia. (...)

## Helmholtz International Research School for Astroparticle Physics and Enabling Technologies

Helmholtz <small>(new)</small>	1.7 M€
KIT <small>(own)</small>	1.8 M€
Argentina <small>(own)</small>	1.6 M€
<b>Total</b>	<b>5.1 M€</b>



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## HIRSAP inauguration and annual meetings



November 2018  
(UNSAM)



Inauguration  
April 2018 (KIT)

Inauguration Nov. 2018 (UNSAM)



November 2019 (KIT)

Meetings  
available  
in indico

Today: 22 doctoral researchers

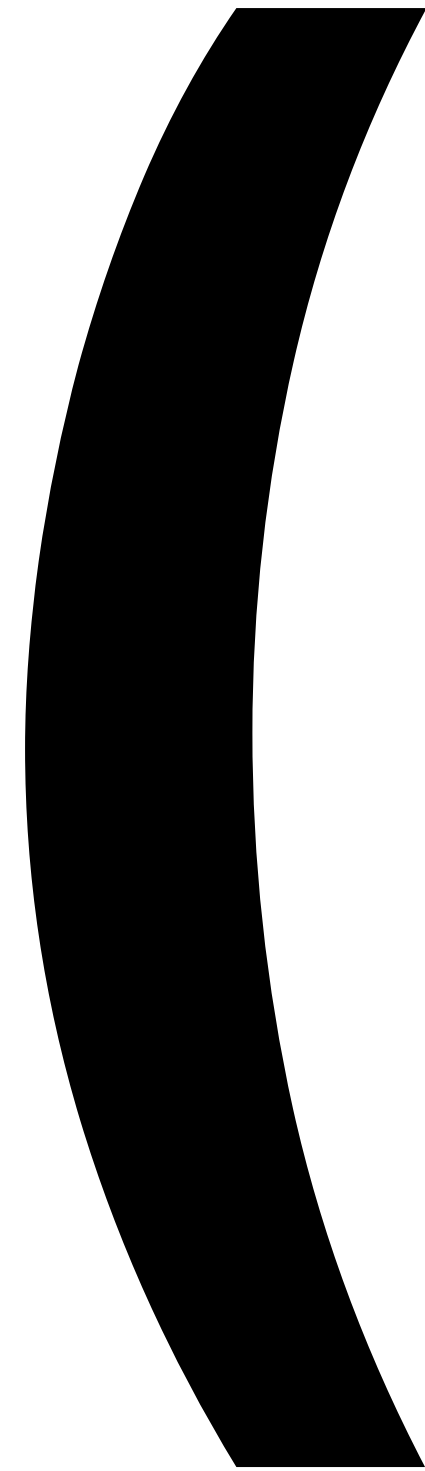


November 2021 (KIT/hybrid)

COVID-19

November 2020 (online)





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#INVESTIGACIÓNUNSAM, NOTAS DE TAPA,  
NOVEDADES DE INVESTIGACIÓN

EL KIT INVERTIRÁ  
CASI 300 MIL EUROS  
EN PROYECTOS DE  
COLABORACIÓN CON  
LA UNSAM



La prestigiosa universidad alemana –líder en ingeniería y ciencias naturales– financiará alrededor de quince proyectos de colaboración durante los próximos dos años y medio. El logro es un resultado de los convenios bilaterales impulsados por la UNSAM desde 2018 y un avance en la alianza estratégica entre ambas instituciones.

Blüner, Ciencia, Colaboración, Frasch, Helmholtz, Instituto Karlsruhe De Tecnología, Investigación, KIT, SPUK, Strategic Fund, UNSAM



“...colaboración durante los próximos dos años y medio...”  
well, this particular seed funding ends just now... continue anyway

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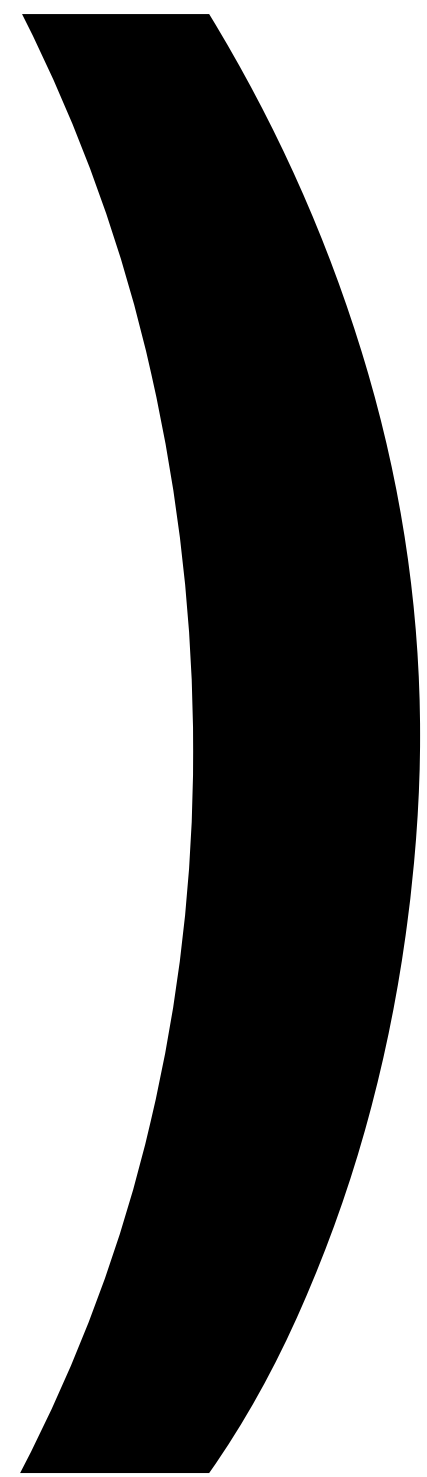


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2023 –

**DAHZ/CUAA funding for DDAp:**

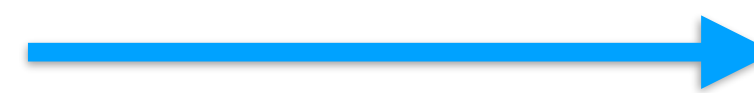
Preparatory phase Sep 2011 – May 2013

1st full funding: July 2014 – Sep 2022

CONEAU accreditation: Nov 2014

Current period: Sep 2022 – Sep 2026

CONEAU re-accreditation: Apr 2022



**ARTÍCULO 2°.** -CATEGORIZAR  
la mencionada carrera como A.

Coordinator in GER: Ralph Engel from Oct 2024

**ITEDA**  
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**DDAp**  
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**HIRSAP**  
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# Alumni

**6**  
GER      **9**  
ARG

**18 people**

DDAp

**15**  
DAHZ  
CUAA

**3**  
HIRSAP

**6**      **9**  
GER    ARG

**3**      **0**  
GER    ARG

# Ongoing

**6**  
GER      **13**  
ARG

**19 people**

**6**  
ARG

**5**  
GER

**11**  
DDAp

**8**  
DDEIT

**7** ARG

**1** GER

**6**  
DAHZ  
CUAA

**5 + 8**  
HIRSAP

**37 altogether**

ITEDA  
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DDAp  
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**...next...?  
2023 –**

*It's hard to make predictions, especially if they address the future...*

ITEDA  
2009



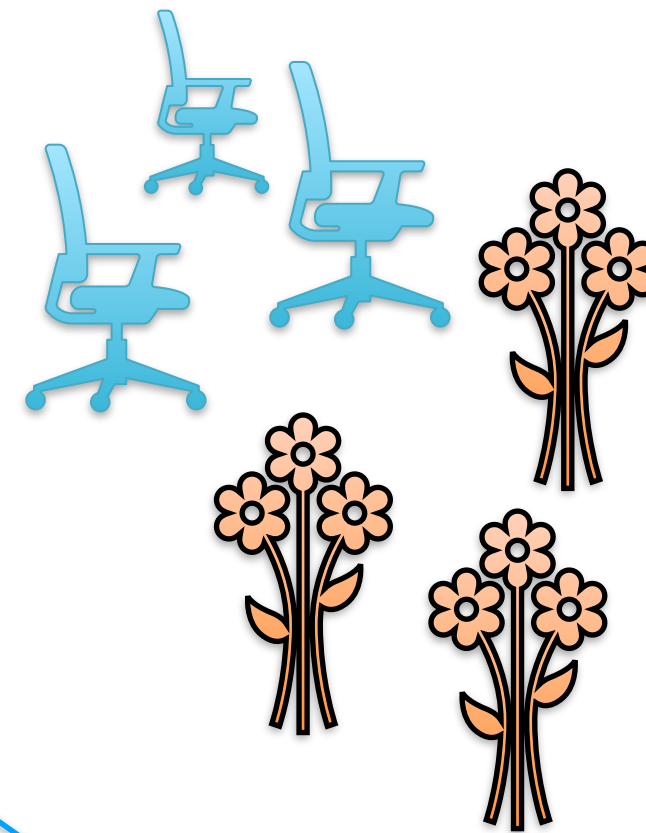
DDAp  
2011

HIRSAP  
2018



ends 2025

SPUK  
2018



DDEIT  
2020

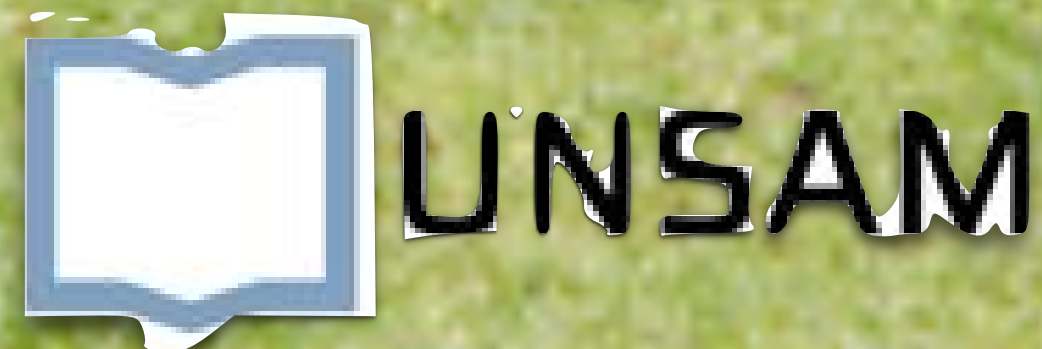
IAP  
2020



...next...?  
2023 -

*International Research  
Training Group (IRTG)*

*spawn engagement on Master level*





*remains of utmost importance to us!*



JORGE LUIS BORGES  
y  
ADOLFO BIOY CASARES

Se recuerda en este espacio a los grandes escritores argentinos de la literatura y del pensamiento. Hoy los encontramos con nosotros. Hoy los encontramos con nosotros. Hoy los encontramos con nosotros.

