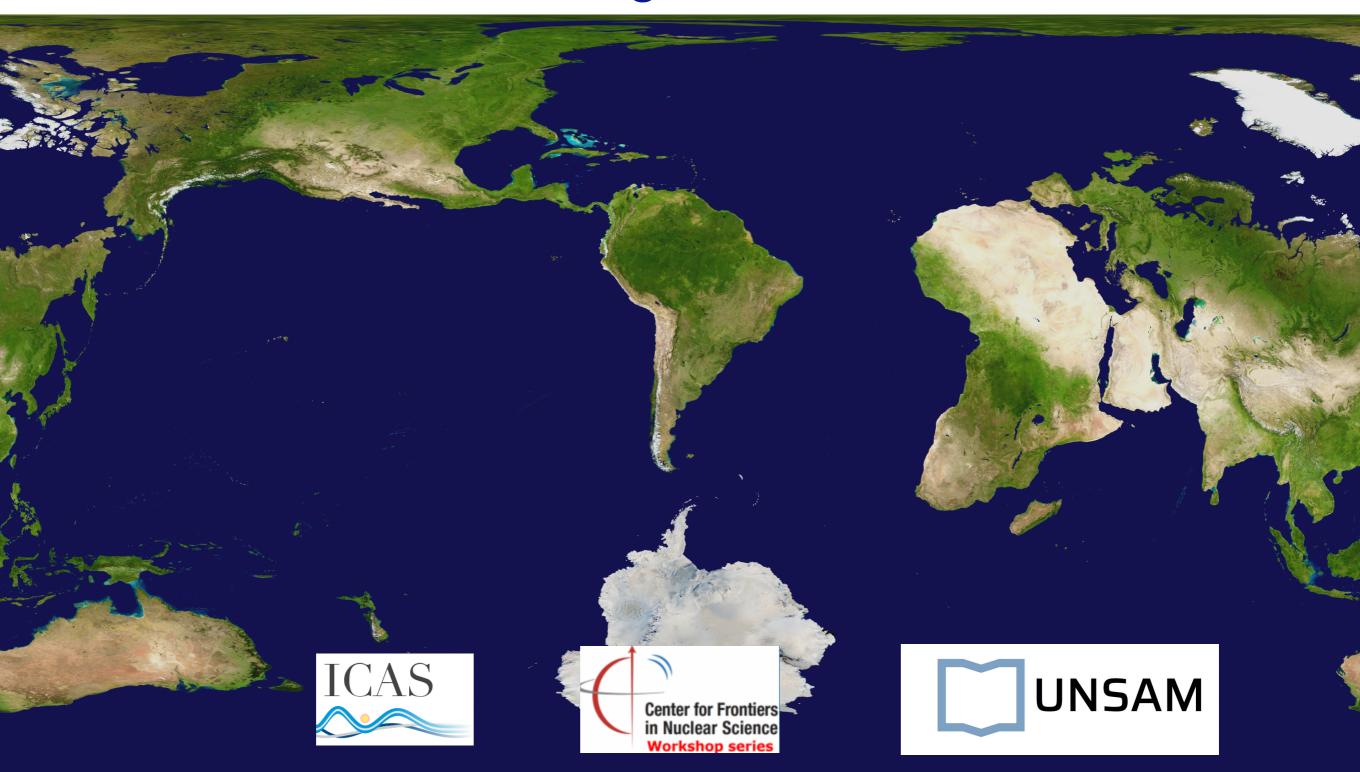
Daniel de Florian ICAS - ICIFI - UNSAM

Argentina



Collider Physics/QCD in Argentina

- Universidad de San Martín
- Universidad de Buenos Aires
- ► CNEA-BA
- Universidad de La Plata
- Centro Atómico Bariloche

There is a network: PHENO@AR (no funding)

- Dark Matter
- **SUSY**
- (other) BSM
- Higgs

- p and np-QCD
- Flavour+QCD
- BMS+Flavour

Several meetings organized over the last 5 years (twice a year typically)

ICAS: International Center for Advanced Studies organization, funding, infrastructure



ICAS

International Center for Advanced Studies





- The International Center for Advanced Studies (ICAS) was formally launched in 2015 and inaugurated on June 2016 by UNSAM
- Main goal: enhance the connection between the academic institutions in areas of basic science of Argentina and the international community
- It hosts a few permanent research groups (currently on HEP and Cond.Matter, and growing) along with a number of short-term visitors, postdocs and senior researchers in sabbatical stays.
- ICAS supports the following activities in which short-term visitors, permanent researchers and associates are expected to participate:
 - Research at the highest international standards
 - Organization of seminars, conferences, workshops and schools (open calls)

Directorial Board

- Director : Ezequiel Alvarez (2021-)
- Former Director: Daniel de Florian (2016-2021)
- Former Deputy Director: Liliana Arrachea (2016-2021)

International Board

- Marcela Carena [FermiLab, USA]
- Leticia Cugliandolo [Paris VI, France]
- Eduardo Fradkin [Urbana, USA]
- Juan Martín Maldacena [Princeton, USA]
- Fernando Rodriguez Villegas [ICTP, Italy]
- Matias Zaldarriaga [Princeton, USA]



Argentina

Networking extended to Argentina+Brasil++ PHENOEXP



PHENOEXP2020 ICTP-SAIFR São Paulo (with more countries) COVID...

Research in Argentina covers several subjects in QCD

- perturbative QCD (high order corrections)
- QCD for Higgs
- resummation
- spin physics
- parton distributions
- fragmentation functions
- jets (EXP+TH)
- Machine Learning in QCD searches
- Hadron structure
- Flavor physics
- non-perturbative QCD
- QCD under extreme conditions
- Chiral quark model, NJL model

very relevant contributions for

LHC

RHIC

EIC

JLAB

+... Physics

Clear network in the country + international collaborations

HP2: High Precision for Hard Processes

bianual conference since 2004 (Zurich, Buenos Aires, Firenze)

LHCPhenonet EU ITN network 2011-2016



Argentina

- ICAS already organized several QCD meetings (+spin physics) strongly related to EIC+ physics
- Natural Center in the country to centralize Network activities
- ICAS available for network meetings in Buenos Aires (all infrastructure + organization + asados!)
- Please keep network structure/bureaucracy to the minimum necessary to obtain FUNDING to support and enhance collaborations
- Use network to bring LHC-TH to EIC physics

