



UNIVERSIDAD
DE TARAPACA



42nd International Conference on Physics in Collision 2023

**Prof. Sonia Kabana,
Universidad de Tarapaca, Arica, Chile**

9 September 2022, PIC2022

**Venue of the conference: Universidad de
Tarapaca, Arica, Chile**





Arica →



Arica



Arica has a population of about 220,000 people
St Mark's cathedral of Arica was build by frenchman Gustave Eiffel (1866)

Universidad de Tarapaca

www.uta.cl

- Public University founded in 1981
- About 10.000 students

Department of Physics, Department of Electronics, Instituto de Alta Investigacion:

- Theoretical physics: gravity, complex systems, particle physics, QCD, mathematical physics, condensed matter
- Experimental physics: Particle and nuclear physics at colliders, astronomy
- Experimental High Energy Particle Physics group in Instituto de Alta Investigacion participates in the:
 - ATLAS Collaboration at the LHC, CERN
 - STAR Collaboration at RHIC, BNL
 - BESIII Collaboration at Beijing (starting)
- The High Energy Physics community of Chile includes :
 - Universidad Andres Bello (UNAB), Santiago,
 - Universidad de Tarapaca (UTA), Arica,
 - Universidad Tecnica Federico Santa Maria (USM), Valparaiso,
 - Pontificia Universidad Catolica (PUC), Santiago,
 - Universidad La Serena (ULS), La Serena
 - Universidad Adolfo Ibanez, Santiago
 - Universidad del Valparaiso, Valparaiso

<https://www.institutosaphir.cl/en/areas-de-investigacion/>



Instituto Milenio SAPHIR

<https://www.institutosaphir.cl/en>

Was founded in 2021 by

- Universidad Andres Bello (UNAB), Santiago,
- Universidad de Tarapaca (UTA), Arica,
- Universidad Tecnica Federico Santa Maria (USM), Valparaíso,
- Pontificia Universidad Catolica (PUC), Santiago,
- Universidad La Serena (ULS), La Serena
- Universidad Adolfo Ibanez, Santiago

Provides funding for the research topics :
High Energy Physics, theory and experiment,
mainly ATLAS and other topics.

The screenshot shows the website of Instituto Milenio SAPHIR. The header includes the SAPHIR logo and navigation links: About Saphir, Research, Dissemination, News, Events, and a search icon. The main banner features a cosmic image with the word "Researchers" in large white text. Below the banner, the "Director" is listed as Sergey Kuleshov, Academic at the Andrés Bello University. The "Alternate Director" is Francisca Garay, Academic of the Pontificia Universidad Católica de Chile. The "Associated Researchers" section displays eight circular portraits with their names and affiliations: Angel Abusleme (Academic of the Pontificia Universidad Católica de Chile), William Brooks (Academic at the Universidad Técnica Federico Santa María), Marco A. Diaz (Academic of the Pontificia Universidad Católica de Chile), Juan Carlos Helo (Academic at the University of La Serena), Sonia Kabana (Academic at the University of Tarapacá), Farinaldo Queiroz (Researcher at the International Institute of Physics, Brazil), Jilberto Zamora (Academic at the Andrés Bello University), and Alfonso Zerwekh (Academician at the Universidad Técnica Federico Santa María). A small Twitter icon is visible at the bottom right of the researchers section.

Researchers

Director

Alternate Director

Associated Researchers

Sergey Kuleshov
Academic at the Andrés Bello University

Francisca Garay
Academic of the Pontificia Universidad Católica de Chile

Angel Abusleme
Academic of the Pontificia Universidad Católica de Chile

William Brooks
Academic at the Universidad Técnica Federico Santa María

Marco A. Diaz
Academic of the Pontificia Universidad Católica de Chile

Juan Carlos Helo
Academic at the University of La Serena

Sonia Kabana
Academic at the University of Tarapacá

Farinaldo Queiroz
Researcher at the International Institute of Physics, Brazil

Jilberto Zamora
Academic at the Andrés Bello University

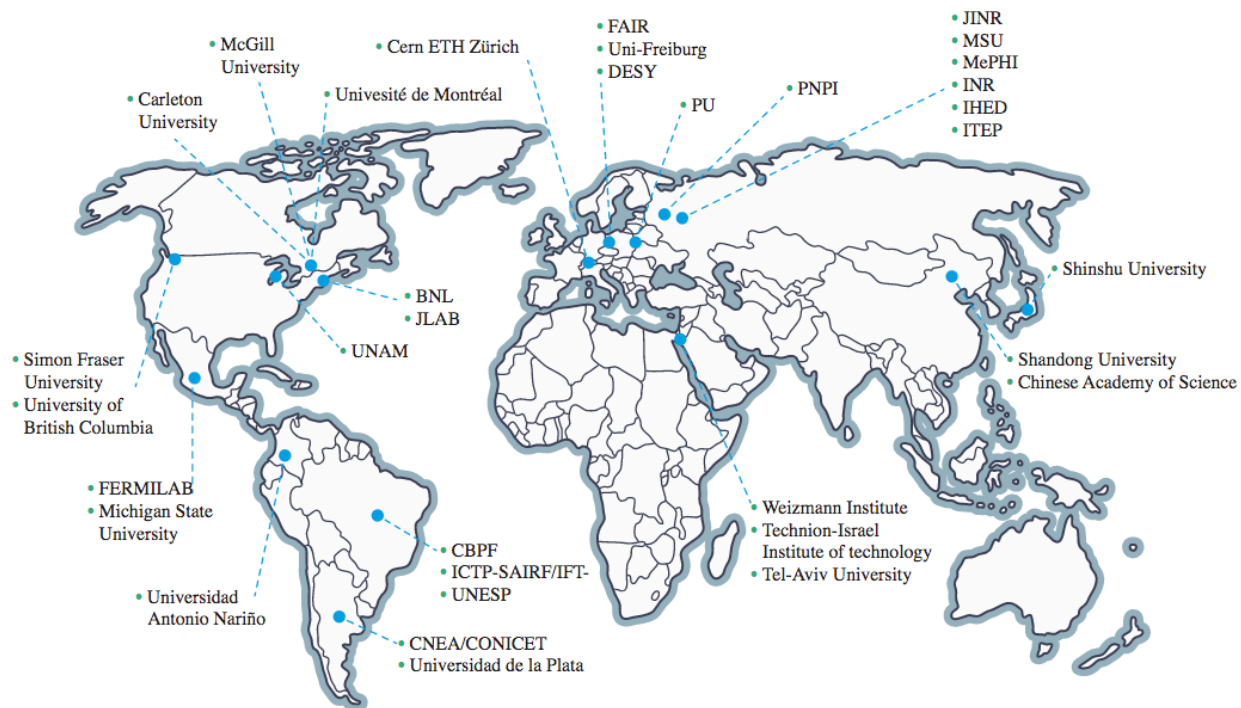
Alfonso Zerwekh
Academician at the Universidad Técnica Federico Santa María

SAPHIR

Saphir's international network

The Saphir Millennium Institute integrates laboratories and researchers from different regions of Chile and is part of a collaborative network of 34 institutions in 14 countries on three continents.

In Chile, the Saphir Institute works with research groups at the Universidad de Tarapacá, Universidad de La Serena, Universidad Técnica Federico Santa María, Universidad Andrés Bello and Pontificia Universidad Católica de Chile.



34

Institutions

14

Countries

3

Continents

Hotels in Arica

Hotel Antay in center of Arica near the sea
about 110 USD for the double room
offers american standards



Hotel Panamericana : situated on the best beaches for swimming of Arica



Auditorium

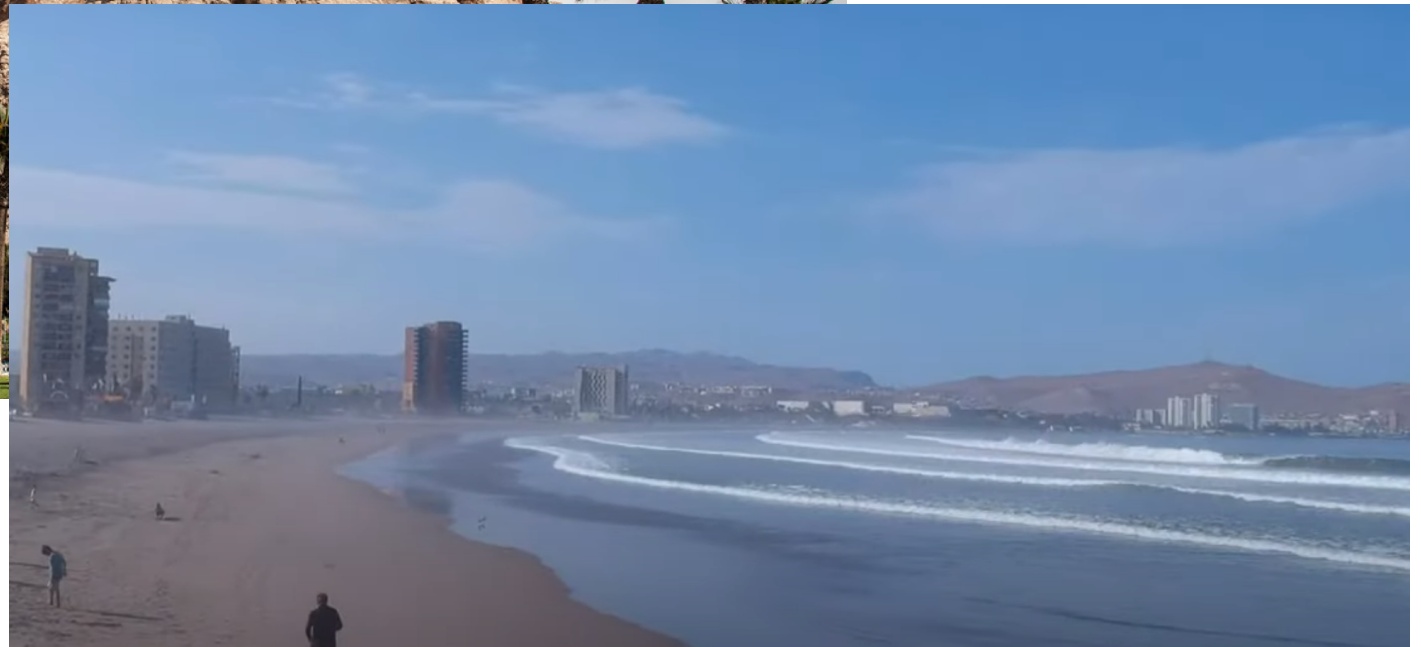


Main auditorium at the University of Tarapaca, Arica, Chile: capacity of 240 sits in total, effectively 120 sits with covid19 protocol

Auditorium of Hotel Grad Antay in Arica, Chile: 550 sits in total, effectively 275 sits with covid19 protocol or can have subdivisions (for example a big saloon for 200 and 3 for 60).

Arica

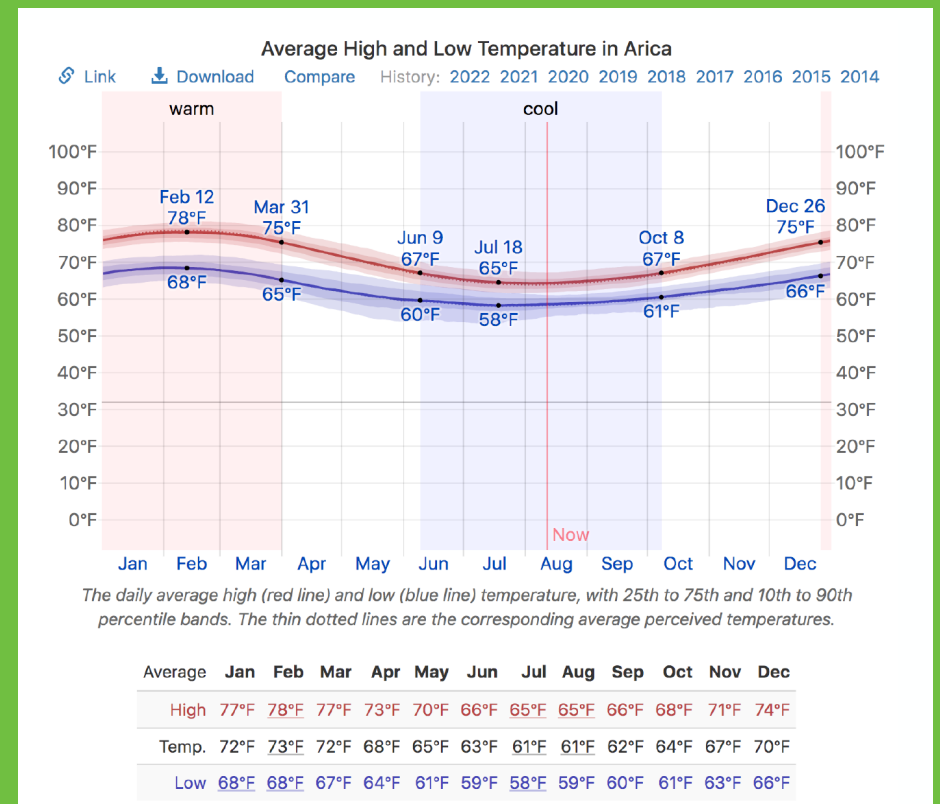
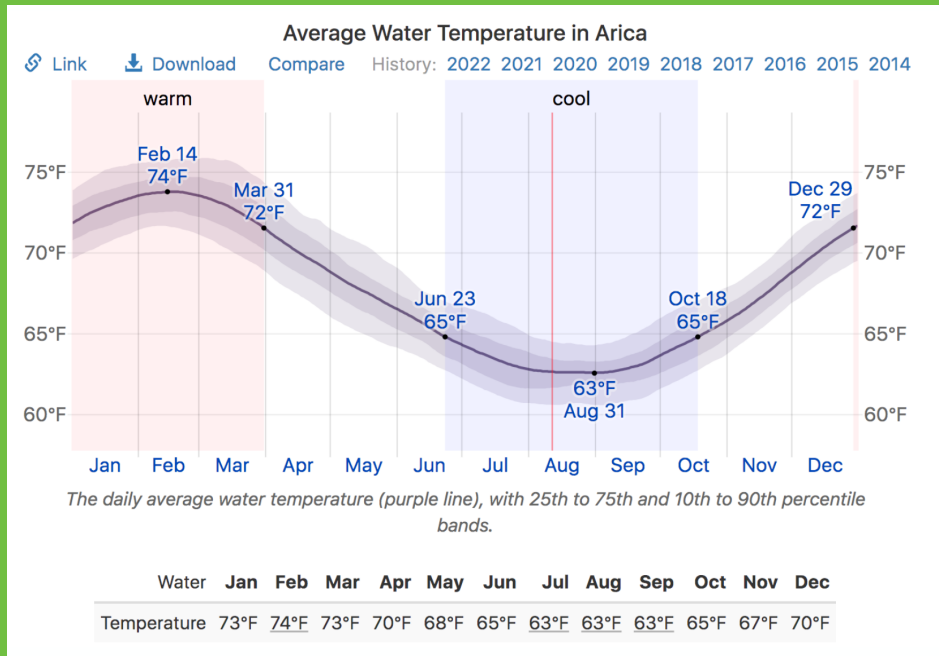




Preliminary local organizing committee of PIC2023

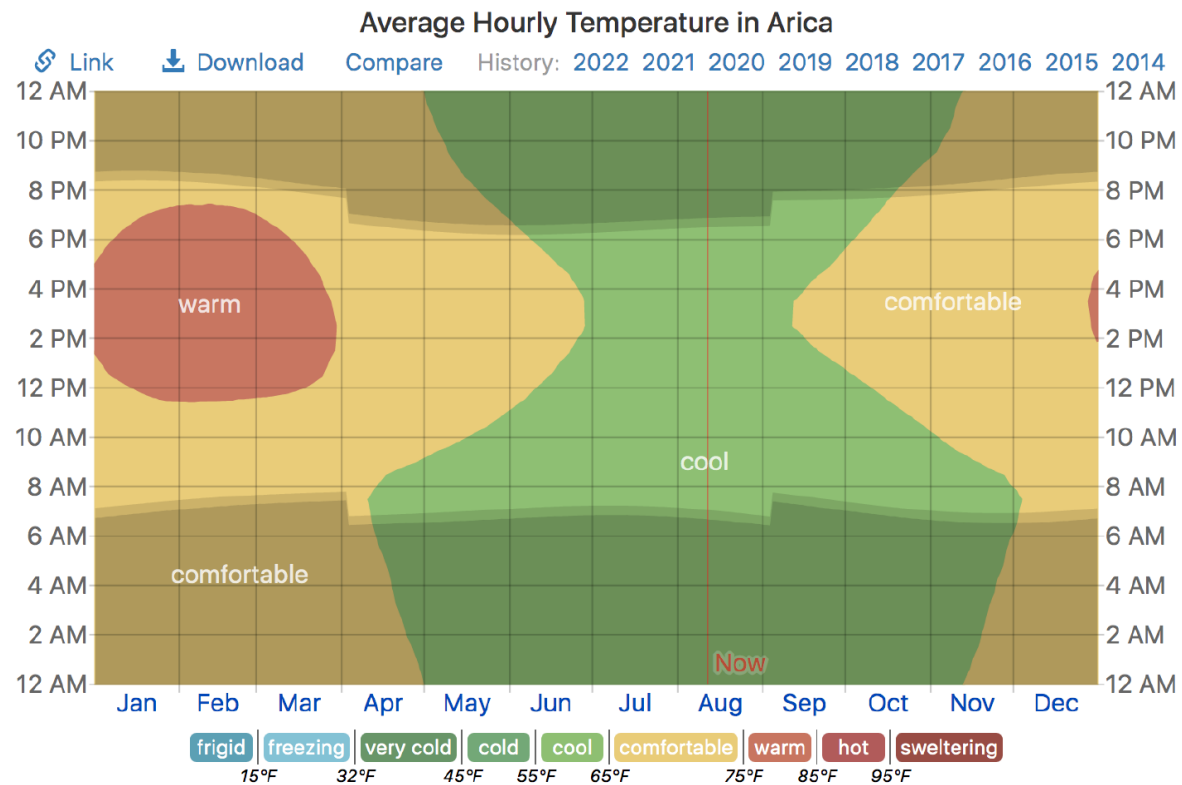
William Brooks (Universidad Tecnica Federico Santa Maria, Valparaiso, Chile)
Ahmed El Alaoui (Universidad Tecnica Federico Santa Maria, Valparaiso, Chile)
Rodrigo Ferrer (Oficina de Investigación, Postgrado y Transferencia Tecnológica, Universidad de Tarapacá, Arica, Chile)
Sonia Kabana (Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile) (chair)
Boris Kopeliovich (Universidad Tecnica Federico Santa Maria, Valparaiso, Chile) (chair of the program committee)
Sergey Kovalenko (Universidad Andres Bello, Santiago, Chile)
Sergey Kuleshov (Universidad Andres Bello, Santiago, Chile)
David Laroze (Oficina del Director, Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile)
Nicolas Neill (Departamento de Ingeniería Eléctrica-Electrónica, Universidad de Tarapacá, Arica, Chile)
Sebastian Olivares (Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile)
Irina Potashnikova (Universidad Tecnica Federico Santa Maria, Valparaiso, Chile)
Ivan Schmidt (Universidad Tecnica Federico Santa Maria, Valparaiso, Chile)
Daniela Vasquez (Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile)
Alexander Vityuk (University of Wroclaw, Wroclaw, Poland)
Elizaveta Zhrebtsova (University of Wroclaw, Wroclaw, Poland)

Arica weather is mild through the year



Arica weather

<https://weatherspark.com/y/26550/Average-Weather-in-Arica-Chile-Year-Round#:~:text=Average%20Temperature%20in%20Arica&text=The%20hottest%20month%20of%20the,temperature%20below%2067%C2%B0F>



The average hourly temperature, color coded into bands. The shaded overlays indicate night and civil twilight.

PIC2023

PIC2023 could take place for example in late September or early October 2023
Note : swimming starts in December



PIC2023

Proposed preliminary dates for PIC 2023: 11-13 October 2023

Monday 9 October 2023: arrival day

Tuesday 10 October 2023 9:00 am: opening of the conference

Friday 13 October 13:00: closing of the conference

Detailed proposed program:

Tuesday: 9:00-19:00

Wednesday 11 October : 9:00- 13:00, afternoon excursion

Thursday 12 October: 9:00-19:00 including poster session and wine tasting

Friday 13 October: 9:00-13:00, at 13:00 closing of the conference

Weekend 14/15 October: long excursions proposed for interested people (not included in the conference fee)

10-13 October 2023 conference

(3 full days of lectures) ending at lunch time of Friday 13 October

PIC2023

Webpage of PIC2023 (not yet public):
<https://indico.cern.ch/event/1190468>

Conference fee (preliminary estimates) :

Physical: 400 EUR Doctors, 300 EUR students

Online: 100 EUR Doctors, 70 EUR students

Covering all social events, conference dinner, transfers, coffee breaks

**Arrange lunches near the conference Auditorium at UTA campus, or
alternatively the whole conference might take place in the Antay Hotel
if funding will allow that**

Details logistics will be worked out soon (Sept/Oct 2022)

PIC2023

**Publication of conference proceedings
we will aim at World Scientific (Focus issue and proceedings volume)
but we will research for better journals**

**Funding : University of Tarapaca, SAPHIR, CCTVAL, ANID,
international funding agencies**



Excursion afternoon

Path through the Caves "Cuevas de Anzota 30 minutes from Arica



Archaeological Museum
St Miguel de Azapa
30 min from Arica



Chungara lake and Volcano Parinacota 4 hours drive from Arica



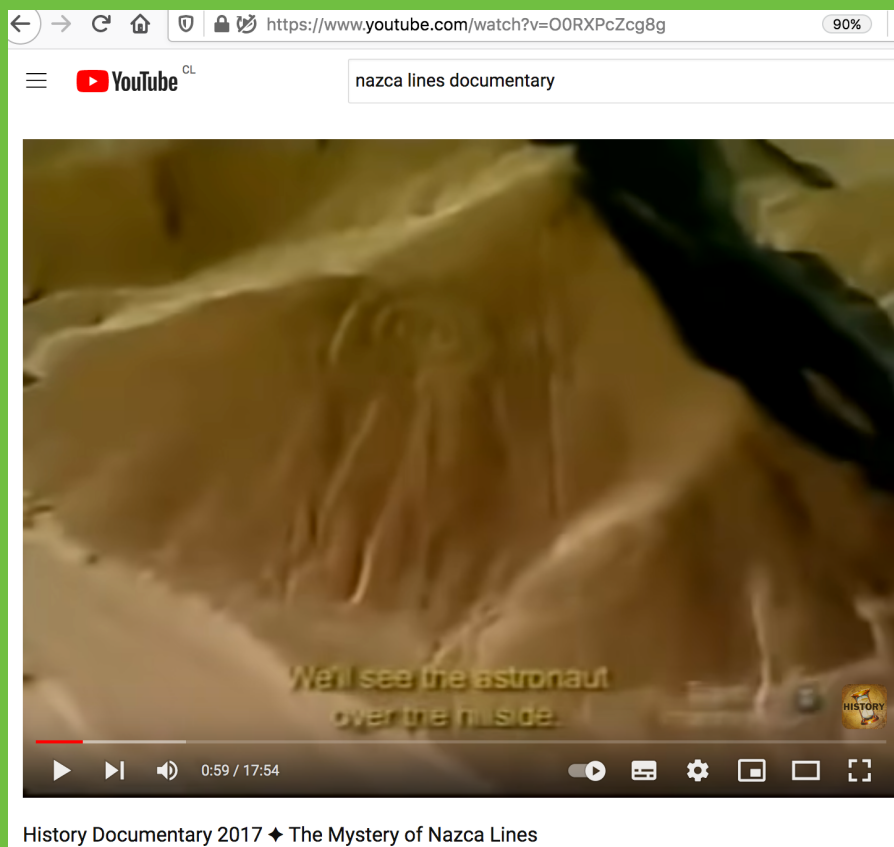
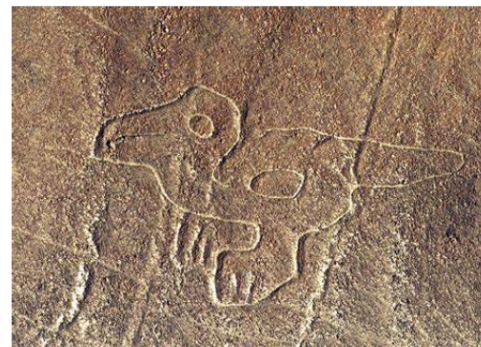
Machu Pichu 10 hours drive+flight from Arica



Lake Titikaka 9 hours drive or drive+flight from Arica



Nazca lines Peru, 3 days drive or drive+flight from Arica



Visitors can observe the Nazca lines
from a small airplane
(costs about 100 USD per person)

<https://www.youtube.com/watch?v=cWIYb5zd6p8>

<https://www.youtube.com/watch?v=O0RXPcZcg8g>

The Mystery of Nazca lines - History documentary

PIC2024

The PIC symposium in 2024 will be hosted by
the National Center of Scientific Research "Demokritos" in Athens,
Greece

<http://www.inp.demokritos.gr/>

Christos Markou director of the Institute of Particle and Nuclear
Physics in "Demokritos" will chair the local organizing committee.



Looking forward to welcome PIC2023 in
the University of Tarapaca, Arica, Chile !

