Bari,  $8^{\rm th}$  September 2023

Early Career Investigators Committee Report

Pierluca Carenza Stockholm University, OKC Colloquia

Arturo De Giorgi, Giuseppe Lucente

 Feb. 1. Light, Feebly Interacting Particles: Progress and Expectations
 Maurizio Giannotti

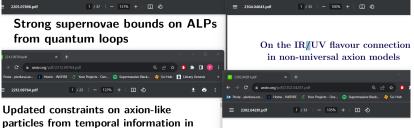
- Mar. 29. Revealing Structure in the Axiverse Liam McAllister
- Apr. 17. Neutron stars as axion laboratories
  Samuel Witte
- May 31. Axion dark matter: A perspective for the post-inflationary scenario
   Kenichi Saikawa

 Jun. 21. In search for ultralight (pseudo)scalars and other dark matter wannabes
 Dmitry Budker

# Journal Club

### María Benito Castano, Michele Tammaro

### Monthly meeting to discuss interesting papers



supernova SN1987A gamma-ray data

The impact of the Large Magellanic Cloud on dark matter direct detection signals

## Newsletter

## Damiano Fiorillo, Giovanni Grilli di Cortona Monthly update on physics and beyond Just an extract...

"Supernova Simulations Confront SN 1987A Neutrinos," - D. F. G. Fiorillo, M. Heinlein, H.-T. Janka, G. Raffelt, E. Vitagliano, arXiv:2308.01403 [hep-ph]

We return to integreting the historical SST 1973 antimic data finds an anders perspective. We construct a nute of patienticity symmetrix supprovements and budy integreting the statistical SST 1973 antimic data finds on anders perspective. We construct a nute of optimically symmetrix supprovements and budy integreting the statistical set of statistical set of the st

"Search for environment-dependent dilatons," - Hauke Fischer, Christian Käding, René I. P. Sedmik, Hartmut Abele, Philippe Brax, Mario Pitschmann, arXiv: 2307.00243 [hep-ph]

The environment-dependent dataon field is a well-metivated candidate for dark energy and naturally arises in the strong coupling limit of string theory. We present the very first experimental constraints on the parameters of this model. For this, we employ data databated from the globance collaboration and the Lmar Laser Ranging (LLR) experiment. Furthermore, we forecast expected exclusion plots for the Casimir And Non Newtonian force Experiment (Cannot yoo to be verailed) in a improved strip.

#### PhD/Postdoc/Junior Positions

#### · September:

- o Postdoctoral position in particle physics (Belle-II), Strasbourg IPHC, France, link (deadline September 30th)
- · Research Fellow in HEP and Quantum computing, U. Southampton, UK, link (deadline September 15th)
- · PostDoc on the application of Machine Learning to particle Physics, OAW, Vienna, Austria, link (deadline September 15th)
- Call for Expression of interest: tenure track positions in physics, IST Lisbon, Portugal, link (deadline September 22sd)
- October:
  - · Arnold Fellowships and Landau Fellowships in Physics and Mathematics, London Institute for Mathematical Sciences, UK, link (deadline October 1st)
  - · Research fellowships, Liverpool U., UK, link (deadline October 1st)
  - o Postdoc position in theoretical physics, IFT Madrid, Spain, link (deadline October 5th)
  - o Junior professorship in Theoretical Physics, KIT, Karlsruhe, Germany, link (deadline October 15n)
  - Tenure track assistant professorship, Eotvvos U., Budapest, Hungary, link (deadline October 15%)
- November:
  - · Postdoc in Theoretical Particle Physics, Stefan Inst., Ljubljana, Slovenia, link (deadline November 5th)

#### Conferences

#### • September:

- o 1st General meeting of COST Action COSMIC WISPers link
- o Particle Avenues in the Dark Universe Arena link
- TeVPA 2023 link
- · 1st training school of COST Action COSMIC WISPers link
- Light Dark World 2023 link

### Send paper to Damiano & Giovanni to be advertised

Social media

Giuseppe Lucente, Mario Reig

On twitter: cosmicwispers



# Role of these initiatives

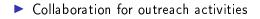
Run daily activities to consolidate a community

Inform all of us of what's going on

Drive the interests towards studies with a bright future

## For next year





Extend the network

# Discussion time

