

ASFAP Web site: <https://africanphysicsstrategy.org/> → [Calls for community inputs](#)

Or directly here: <https://indico.cern.ch/event/1061921/>

African Strategy for Fundamental and Applied Physics

Call for Letters of Interest

Letters of Interest Submission

21 July 2021 to 1 December 2021
Europe/Zurich timezone

Opening day: 21 Jul 2021, 00:00
Submission deadline: 30 Nov 2021, 23:59

Enter your search

- Overview
- Call for Letters of Interest
- Contribution List
- Book of Letters of Interest
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✉ asfap-steeringcommitte...

Please follow the Call for Letters of Interest to submit your LOI. The letters of Interest should be 2 pages or less, including author list with affiliations, and references. The format is free style; however, a pdf file should be prepared and uploaded as attachment; in the "Content" field, simply mention that your LOI is in the attached file. Alternatively, you may type your LOI in the "Content" field and skip the attachment (least preferred option). Please take a look at the samples of LOIs on this page.

You will need to login to submit your Letter of Interest. If you don't have a CERN account, there are 2 options:

1. Scroll down the login page for the option to login with your Facebook, google, etc., credentials;
2. Register your email by filling in this form <https://account.cern.ch/account/Externals/RegisterAccount.aspx>
3. Submit your Letter of Interest by clicking on "Submit new abstract"

Starts 21 Jul 2021, 02:00
Ends 1 Dec 2021, 00:59
Europe/Zurich

Fairouz Malek
Farida Fassi
Ketevi Adikle Assamagan
Shaaban Khalil Ibrahim
Simon Connell

📎 Samples of Letters of Interest

- 📄 espp-hsf-submission.pdf
- 📄 MAGIS_European_Strategy.pdf
- 📄 SNOWMASS21-CommF3_CommF0-TF0...
- 📄 SNOWMASS21-EF10_EF2_Ketevi_Assa--

📄 **The call for abstracts is open**
You can submit an abstract for reviewing.

Submit new abstract

Scroll down the login page for the option to login with your Facebook, google, etc., credentials.

Few samples as examples on how to edit an LOI.

Submit an LOI

Who can, should, are invited to submit Lols ?

- Who can : Everyone interested in the strategy process, regardless their nationality and the place where they live;
- Who should : ASFAP members, especially committee members, conveners;
- Who are invited: Science Communities (Learned Societies, Science academies), Organisms (IUPAP, ICTP, UNESCO, ...), Universities, Labs, Institutions, Foundations, Collaborations, Clubs, Stake Holders, Industries etc.

What to submit ?

- Ideas
- Intentions
- Official programmes
- Collaboration MoUs
- Activities within the continent or with collaborators in the continent

Which Format ?

- Title and Abstract → completed further
- 1 or 2 pages narrative text/images
- 1 or 2 pages scientific context
- 1 or 2 pages institutional context

Title *

Content *

abstract

Authors *

Comments

Attachments

1000 words left

You can use [Markdown](#) and [LaTeX](#) math formulae.

There are no authors

There are no co-authors

Add myself Search Enter manually

Drag file here
- or -
Choose from your computer

Title

Authors
by seach or manually

Pdf Lol: 2 pages max

Authors *

Comments

Attachments

Primary Category *

Secondary Category

- Accelerators
- Astrophysics & Cosmology
- Atomic & Molecular Physics
- Biophysics
- Computing & 4IR
- Earth Physics
- Energy
- Fluid & Plasma Physics
- Instrumentation & Detector
- Light Sources
- Condensed Matter & Materials Physics
- Medical Physics
- Nuclear Physics
- Particle Physics
- Optics & Photonics
- Complex Systems
- Community Engagement
- Physics Education
- Women in Physics

Submit Cancel

Electrochemical study of A2B7-type hydrogen storage alloy prepared by ball milling #12

Withdraw  

Submitted Rakia Dahsa submitted this abstract

Author: Rakia Dahsa

Rakia Dahsa¹, Yessine Ben Belgacem¹, Bilel Hosni^{1, 2}, Youssef Dabaki¹, Chokri Khaldi¹, Omar ElKedim², Nouredine Fenineche³, Jilani Lamloumi¹

Abstract. In this study, the hydrogen storage property of the La_{1.5}Mg_{0.5}Ni₇ compound as a negative electrode in Ni-MH batteries was investigated. This compound was elaborated by ball milling in a mechanical grinder for 30 hours at a ball/powder weight ratio of 8:1. The characterization of the powder of the elaborated ally was examined both by X-ray diffraction and by scanning electron microscope.

In this context, the structural property for alloy has two major phases Ni, La₂Ni₇. The powder micrograph shows that the average grain size calculated is approximately 13 μm.

The electrochemical characterization of the La_{1.5}Mg_{0.5}Ni₇ electrode was carried out by the galvanostatic charge and discharge polarization the open circuit potential and potentiodynamic polarization in alkaline solution (6M), and at ambient temperature..

The best discharge capacity is observed in the first cycle (58 mAh/g). Therefore the La_{1.5}Mg_{0.5}Ni₇ alloy activation requires only one cycle of charge and discharge. After activation, the discharge capacity gradually decreases during long cycling because of the degradation of the active material of the electrode.

Keywords: A2B7-type hydrogen storage alloy; Mechanical alloying, nickel-metal hydride batteries, electrochemical polarization Methods.

- Edit and amend
- upload new pdf version

withdraw

STC will check it before acceptance
(to avoid spam or unrelated topics)

R

Rakia Dahsa submitted this abstract - 12 Sep 2021

Author:

 Rakia Dahsa (ENSIT)

[More Information](#)

Primary Category: Young Physicist Forum

Secondary Category: Energy

 [Full text_ICIRASTE2021_Rakia Dahsa.pdf](#)

Accept:

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Judge

Accepted Lols are displayed

Overview

Call for Letters of Interest

Contribution List

Book of Letters of Interest

Steering Committee

✉ [asfap-steeringcommitte...](#)

Contribution List

☰ 10 / 10 🔍 Enter #id or search string

- 4. African Graphene Flagship Letter of Intent**
Abstract
Graphene, discovered in 2004, is considered as the wonder nanomaterial with astonishing properties marked the condensed matter and Materials Physics. This layer of one atom thick has revolutionized
- 15. Astro-particle and cosmology potential in the Underground of Africa**
There are signals from the Universe that one can detect by performing experiments which are not underground and not even located in space or at large observatories on Earth. Some of these signals can address questions: How did the Universe begin? How did it come to existence? What is hidden to our eyes?
- 5. Energy WG**
LOI: For Energy WG
Prof. Diouma KOBOR
- 8. Jet energy scale and resolution in the High-Granularity Timing Detector in ATLAS LHC**
The large increase of pileup is one of the main experimental challenges for the High Luminosity-Large Hadron Collider (HL-LHC) physics program. HL-LHC is expected to start in 2027 and to provide an integrated luminosity in a few years, a factor 10 more than what will be collected by 2023. A powerful new way to address this challenge
- 14. Observational astronomy in North Africa**
In this letter of Interest, we would like to address the opportunity for North African countries to unite and build and lead a series of local observatories and/or one large facility. In doing so, they will have to address aspects of science and society such as building trades, geology, technology and instrumentation.
- 7. Searches for heavy resonances decaying to top quarks with the ATLAS detector**
👤 [Badr-Eddine Ngair](#) (universite monami...)
A search for new resonances that decay into top-quark pairs is performed using data collected from collisions at a centre-of-mass energy of 13 TeV by the ATLAS detector at the Large Hadron Collider. Events with top-quark pair production are selected by requiring a single isolated charged lepton, missing transverse energy
- 6. The African School of Fundamental Physics and Applications (ASP)**
International cooperation forms the common denominator of the today's culture of scientific activities. In scientific disciplines and especially in fundamental and applied physics the cooperation among African

Nex steps

- Lols will be gathered by category → November 30th
- Lols will be considered by the conveners of the WGs
- WGs will report to the African Conference ACP2021 held in December 2021 : <https://indico.cern.ch/event/1060503/>
→ And will discuss white papers preparation