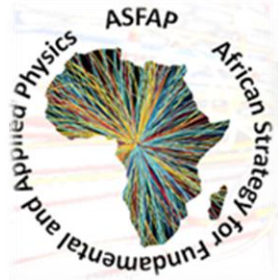


Workshop

African Strategy for Fundamental and Applied Physics (ASFAP)

Condensed Matter and Materials Physics Working Group African

15 December 2021, Virtual Event



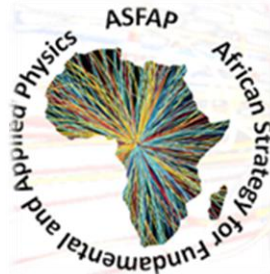
What is a Letter of (Intent) Interest (LOI) ?

Expresses **your interest in playing a role**, in building the strategy for fundamental and applied Physics, **that matches your skills and expertise**

What should a LOI include ?

- Define a topic of interest to develop Physics in Africa
- Why ?
- How?

Be Specific, concise (No more than 2 pages)



Some topics of LOI ?



African Theoretical Physics Flagship Letter of Intent
Quantum Plasmonic Sensing

Towards Quantum Research, Quantum Computing and Quantum Technologies

The African School of Fundamental Physics and Applications (ASP)

Computing in Physics Education

African Graphene Flagship Letter of Intent

Example of LOI ?

Description

Within the framework of the UNESCO-UNISA iTLABS/NRF Africa Chair in Nanosciences & Nanotechnology (U2ACN2), a trilateral partnership between the UNESCO, the University of South Africa (UNISA), and iThemba LABS, a national facility of the South African National Research Foundation (NRF) as well as the Nanosciences African Network (NANOAFNET), an African Union Network of Excellence, I wish to add their voices to this strategic initiative titled "The African Strategy for Fundamental & Applied Physics (ASFAP)".

Likewise, I wish to mention the following milestones in the Physics at the nanoscale that are implemented in support of ASFAP's vision & mission:

1. Implementation of a continental human capital development at postgraduate level in the sciences at the nanoscale,
2. Implementation of a continental human capital mobility in the sciences at the nanoscale,
3. Implementation of a co-diploma program in the sciences at the nanoscale,
4. Creation of an African Open Access Journal in the sciences at the nanoscale; "Nano-Horizons".

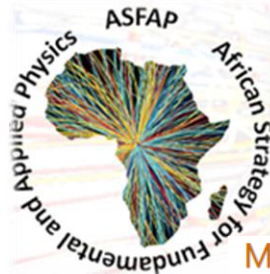
Within ASFAP, We would suggest the followings:

1. Advocating for an African Diploma in Physics,
2. Advocating for the introduction of AI & associated disciplines as a required component in the Physics national academic syllabus,
3. Working with African Physical Society to implement an indexed continental Physics Journal,
4. Implement an annual hybrid international African Conference in Physics,
5. Implement a specific program with the African Diaspora. This later is a pivotal corner up to now not harnessed at the deserved level.

Primary Category Condensed Matter & Materials Physics

Auteur principal

 Prof. Malik Maaza (UNESCO UNISA ITL...



Example of LOI ?



My vision for Physics in Africa

📅 Non programmé
🕒 20m

Description

My contribution will be on several points:

1. Physics education
There are several challenges surrounding the teaching of Physics, the first being the lack of infrastructure - needed to put students and staff in good working conditions. Governments need to invest massively in education.

In order to draw a good vision, there is need to establish a discussion/collaboration with all ministries involved: Higher, secondary and basic education.

Curricula should be a compromise between local and international contexts. Physics books written by africans with local contents should be encouraged/sponsored.

A vision should be drawn for Physics in Africa: which physicists do we want in Africa?

For Research are needed at the continental level:

- a. Database for theses (Msc/PhD)
- b. Mobility programs
- c. research facilities
- d. African physics journals needed (high quality/low fees)
- e. A continental fund for physics/science (African Science Foundation)

1. Energy Working group
As topics should be added: Energy Fundamentals/Thermal Science (Thermodynamics & Heat Transfer), Energy Statistics/Accounting, Energy System Modeling, Energy Planning, etc.

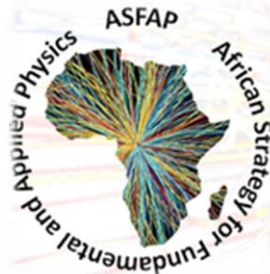
Shall we integrate: energy economics ?

Several divisions/categories can be used here:

- energy forms
- energy technologies
- energy use
- conventional & unconventional energies

state of art

what propose



How to submit LOI ?



<https://indico.cern.ch/event/1061921/>

How to submit LOI ?

Letters of Interest Submission

21 juillet 2021 à 28 février 2022

Fuseau horaire UTC

Entrer le texte à rechercher



Accueil

Call for Letters of Interest

Liste des contributions

Book of Letters of Interest

Steering Committee

✉ 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:

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<https://account.cern.ch/account/Externals/RegisterAccount.aspx>
3. Submit your Letter of Interest by clicking on "Submit new abstract"



Commence le 21 juil. 2021 à 00:00

Finit le 28 févr. 2022 à 23:59
UTC



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



Samples of Letters of Interest

LOI-fromCondensedMatter-MaterialsPhysicsW...



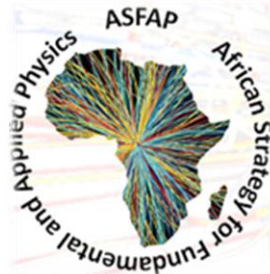
LOI-fromCondensedMatter-MaterialsPhysicsWG.ASFAP



L'appel à contribution est ouvert

Vous pouvez déposer un résumé pour évaluation.

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How to submit LOI ?



<https://indico.cern.ch/event/1061921/>

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One-click authentication



Log in with Kerberos

Authenticate through your home institute



eduGAIN

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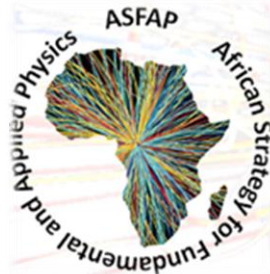
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Guest access




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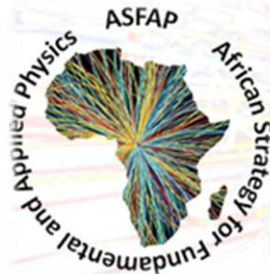
<https://indico.cern.ch/event/1061921/>

 Se connecter avec Google

Sélectionner un compte
pour accéder à l'application cern.ch

 **Sonia Haddad**
soniahaddad09@gmail.com

 **Sonia Haddad**
sonia.haddad@fst.utm.tn



How to submit LOI ?



<https://indico.cern.ch/event/1061921/>

Créer un nouveau profil Indico

Adresse électronique *

Prénom *

Nom de famille *


Affiliation

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⚠ N'oubliez pas de lire les instructions pour le dépôt avant de déposer un résumé.

Titre *

Contenu *
 B I | [🔗](#) | [🗑](#) | [↶](#) | [☰](#) | [☰](#) | [📄](#) | [↶](#) | [↷](#) | [?](#)

 1000 mots restants

 ↑ Vous pouvez utiliser les formules mathématiques en [Markdown](#) et en [LaTeX](#).

Auteurs *
 Auteurs
 Il n'y a pas d'auteur
 Co-auteurs
 Il n'y a pas de co-auteur

Commentaires

Fichiers attachés

How to submit LOI ?



Déposer un nouveau résumé

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Titre *

Contenu *

1000 mots restants

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Auteurs *

Il n'y a pas d'auteur

Il n'y a pas de co-auteur

Majouter moi-même Chercher

Entrer manuellement

Commentaires

Fichiers attachés

Déposer le fichier ici

<https://indico.cern.ch/event/1061921/>

Primary Category *

Condensed Matter & Materials Physics

Secondary Category *

ASFAP

Subgroup categories *

MaterialsPhysics—Materials for energy

for the selected working groups, select the applicable subgroups

Did you / will you submit this LOI to another category?

NO
 YES

Tell us if you did / will submit this LOI to another category

Additional Information *

Please indicate if this LOI is relevant to other categories and sub-categories (which ones). If none, write NONE.

Envoyer

Abandonner

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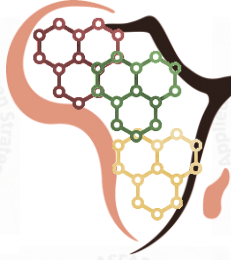
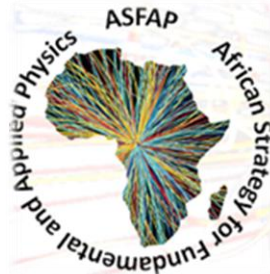
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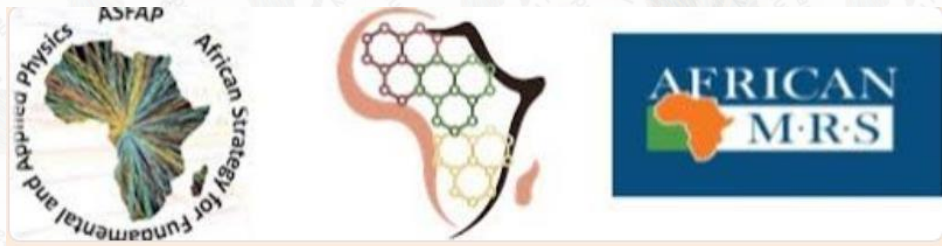
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What to put in the LOI ?



Condensed Matter & Material Physics
WG: Survey

This survey aims to help participants to prepare a Letter of Intent for the Condensed Matter and Materials Physics Working Group within the African Strategy for Fundamental and Applied Physics (ASFAP)

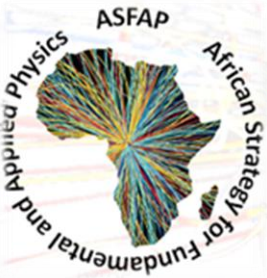
sonia.haddad@fst.utm.tn [Switch account](#)

* Required

Email *

Your email

First and Last names *



More information



<https://africanphysicsstrategy.org/>

<https://twiki.cern.ch/twiki/bin/view/AfricanStrategy/AfMaterialsPhysics>

<https://indico.cern.ch/event/1061921/>

Need of hundreds of thousands of proposals!

