

QCD24

27th HIGH-ENERGY PHYSICS
INTERNATIONAL CONFERENCE
IN QUANTUM CHROMODYNAMICS



Stephan Narison



Thanks to all participants !

The (eventual) success of this meeting

has depended on you !



QCD 24-Montpellier (12 nations)

EUROPE 

France



Germany



Italy



Spain



Switzerland



OTHER COUNTRIES

Canada



Chili



China



Japan



Madagascar



Montenegro



USA



Thanks to the Regular Participants

Since

- 96 : V.I. Zakharov
- 96 : M. Loewe
- 98 : G. Cvetic
- 08 : M.A. Shifman
- 16 : A. Penzo
- 18 : D. Rabetiarivony
- 22 : N. Su



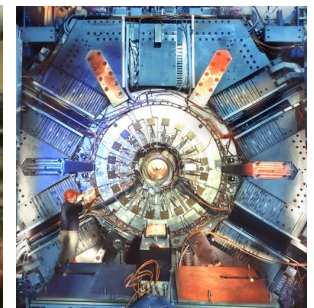
and to

M.A. Shifman, V.I. Zakharov for celebrating with us the 45th year of the SVZ sum rule !

Thanks to the Contact Persons of \neq Experiments

who helped in preparing *the Scientific Program* !

ALICE	M. Van Leeuwen
ATLAS	Alain Bellerive, Carlo Dallapiccola
LHCb	Vincenzo Vagnoni
CMS	Hongbo Liao
NA62	Angela Romano Patrizia Cenci
BELLE II	Jim Libby

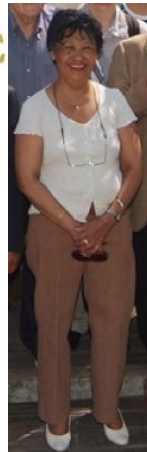


Thanks to the (Ex-) International Committee !



INTERNATIONAL COMMITTEE

- A. Di Giacomo (Pisa)
- M. Knecht (Marseille)
- A. Pich (Valencia)
- G. Rossi (Roma)
- V. I. Zakharov (Munich)



Thanks to the Institutions & Organisations



Participating in the organization



Thanks to Lydia & Francica



who have contributed to the success of the Meeting !

QCD 24 - 27th of the QCD-Montpellier Series

Already Ends ... after One hard week (at least for the organizers !)

Organized since 1985 !

QCD24 27th HIGH-ENERGY PHYSICS INTERNATIONAL CONFERENCE IN QUANTUM CHROMODYNAMICS



51 AND 45 YEARS OF QCD AND SVZ SUM RULES



SCIENTIFIC PROGRAM
Hadron Spectroscopy; Exotic Hadron Spectroscopy
K, D, ... : Rare Kaon Decays and D, B, Bc
Tau-decays and e⁺e⁻ to Hadrons

CHAIRMAN
Stephan NARISON
Laboratoire Univers et Particules
CNRS - Université de Montpellier - FR

INTERNATIONAL COMMITTEE
A. Di Giacomo (Pisa)
M. Knecht (Marseille)
A. Pich (Valencia)
G. Rossi (Roma)
V. I. Zakharov (Munich)

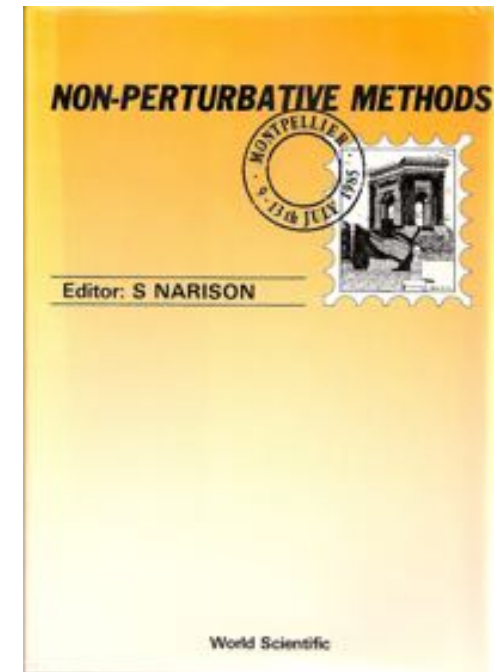
LOCAL ORGANIZATION
Laboratoire Univers et Particules
Association Culturelle Meigache (ACMM)
Association Gasy Maria-Mandrosio (AGMM)

CONTACT ADDRESS
Stephan NARISON
QCD Conference
Laboratoire Univers et Particules
Université de Montpellier
Case 070 Place Eugène Bataillon
34095 Montpellier Cedex-FR

EMAIL ADDRESSES
snarison@yahoo.fr/qcdconf@gmail.com

URL ADDRESS
<https://www.lupm.in2p3.fr/users/qcd/QCD24>

DEADLINES
Registration: 1 June 2024
Papers: 1 June 2024
Proceedings: 13 September 2024



Like other QCD - Montpellier Series

- ◆ International Conferences
 - Non Perturbative Methods 85,
 - QCD 90, 00, 02, 03, 04, 05, 06,
08, 10, 12, 14,
 - QCD 15 (30th anniversary)
 - QCD 16, QCD 17, QCD18, QCD19
 - QCD 20 (35th anniversary), QCD 21, QCD 22
 - QCD23

Like other QCD - Montpellier Series

- ◆ International Conferences

Non Perturbative Methods 85,

QCD 90, 00, 02, 03, 04, 05, 06,

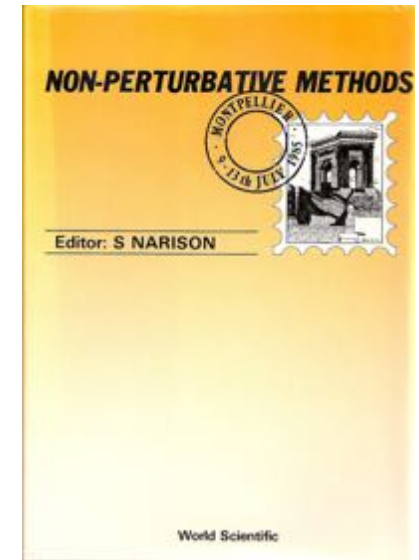
08, 10, 12, 14,

QCD 15 (30th anniversary)

QCD 16, QCD 17, QCD18, QCD19

QCD 20 (35th anniversary), QCD 21, QCD 22

QCD23



Like other QCD - Montpellier Series

- ◆ International Conferences

Non Perturbative Methods 85,

QCD 90, 00, 02, 03, 04, 05, 06,

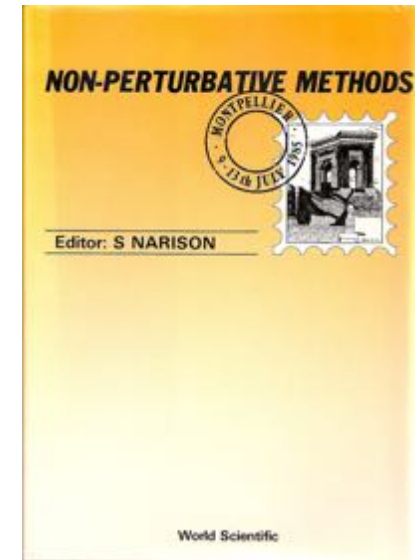
08, 10, 12, 14,

QCD 15 (30th anniversary)

QCD 16, QCD 17, QCD18, QCD19

QCD 20 (35th anniversary), QCD 21, QCD 22

QCD23



Like other QCD - Montpellier Series

- ◆ International Conferences

Non Perturbative Methods 85,

QCD 90, 00, 02, 03, 04, 05, 06,

08, 10, 12, 14,

QCD 15 (30th anniversary)

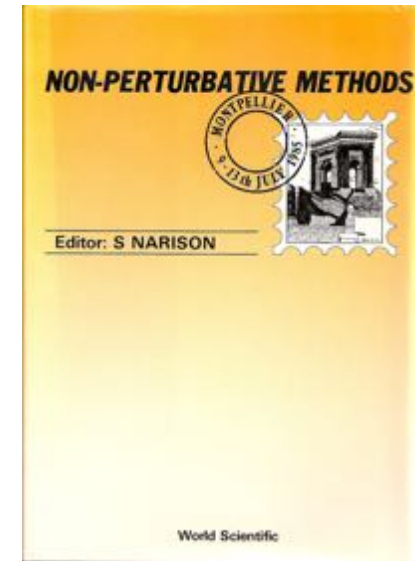
QCD 16, QCD 17, QCD18, QCD19

QCD 20 (35th anniversary), QCD 21, QCD 22

QCD23

- ♥ Euroconferences:

QCD 94, 96, 97, 98, 99



QCD Conference Special Events

- ♣ QCD 97-98 : Anniversaries : 100th of electron - 25th of QCD

QCD Conference Special Events

- ♣ QCD 97-98 : Anniversaries : 100th of electron - 25th of QCD



Nobel Price Winners : J. Steinberger (1988) QCD97, D. Gross (2004) QCD98, G. 't Hooft (1999) QCD 98-02



QCD Conference Special Events

- ♣ QCD 97-98 : Anniversaries : 100th of electron - 25th of QCD



Nobel Price Winners : J. Steinberger (1988) D. Gross (2004), G. 't Hooft (1999)
QCD97 QCD98 QCD 98-02

- ◇ QCD 10 : 25th Anniversary of the QCD conference and 30 \oplus 1 jubilee of SVZ sum rules M. Shifman and V. Zakharov (Sakurai Price 1999)



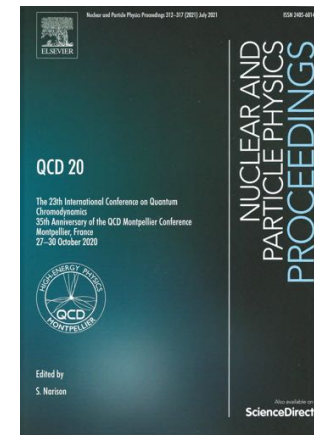
QCD Conference Special Events

- ♣ QCD 97-98 : Anniversaries : 100th of electron - 25th of QCD



Nobel Price Winners : J. Steinberger (1988) D. Gross (2004), G. 't Hooft (1999)
 QCD97 QCD98 QCD 98-02

- ◇ QCD 10 : 25th Anniversary of the QCD conference and 30 \oplus 1 jubilee of SVZ sum rules M. Shifman and V. Zakharov (Sakurai Price 1999)



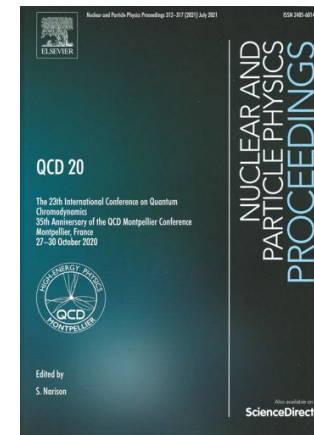
QCD Conference Special Events

- ♣ QCD 97-98 : Anniversaries : 100th of electron - 25th of QCD



Nobel Price Winners : J. Steinberger (1988) D. Gross (2004), G. 't Hooft (1999)
 QCD97 QCD98 QCD 98-02

- ◇ QCD 10 : 25th Anniversary of the QCD conference and 30⁺1 jubilee of SVZ sum rules M. Shifman and V. Zakharov (Sakurai Price 1999)



- ♥ QCD 15 & 20 : 30 & 35 th Anniv. of the QCD conference



Spirit & Size of the QCD Series

-  Spirit



Spirit & Size of the QCD Series

-  Spirit
 - Young Physicists & World Experts together



Spirit & Size of the QCD Series

• Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory



Spirit & Size of the QCD Series

• ➡ Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory
- Different Aspects of QCD



Spirit & Size of the QCD Series

• Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory
- Different Aspects of QCD
- New Results before the ICHEP and EPS Conferences



Spirit & Size of the QCD Series

- **» Spirit**
 - Young Physicists & World Experts together
 - Balance between Experiments & Theory
 - Different Aspects of QCD
 - New Results before the ICHEP and EPS Conferences
- **» Medium Size (in Person Conference)**



Spirit & Size of the QCD Series

• Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory
- Different Aspects of QCD
- New Results before the ICHEP and EPS Conferences

• Medium Size (in Person Conference)

- Better Scientific & Social Organizations



Spirit & Size of the QCD Series

• ➤ Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory
- Different Aspects of QCD
- New Results before the ICHEP and EPS Conferences

• ➤ Medium Size (in Person Conference)

- Better Scientific & Social Organizations
- Family Atmosphere



Spirit & Size of the QCD Series

• ➤ Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory
- Different Aspects of QCD
- New Results before the ICHEP and EPS Conferences

• ➤ Medium Size (in Person Conference)

- Better Scientific & Social Organizations
- Family Atmosphere
- Stronger Interactions among Participants



Spirit & Size of the QCD Series

• ➤ Spirit

- Young Physicists & World Experts together
- Balance between Experiments & Theory
- Different Aspects of QCD
- New Results before the ICHEP and EPS Conferences

• ➤ Medium Size (in Person Conference)

- Better Scientific & Social Organizations
- Family Atmosphere
- Stronger Interactions among Participants
- Origin of New Collaborations



Training & Prestigious Participants

• ➡ Training

Most of the “good” European Physicists have presented their first international talks here. I wish that young participants in this meeting will become like them !



Training & Prestigious Participants

- ➤ Training

Most of the “good” European Physicists have presented their first international talks here. I wish that young participants in this meeting will become like them !

- ➤ Prestigious participants



Training & Prestigious Participants

- **Training**

Most of the “good” European Physicists have presented their first international talks here. I wish that young participants in this meeting will become like them !

- **Prestigious participants**



- **Nobel Price Winners** : J. Steinberger (1988) D. Gross (2004), G. 't Hooft (1999)



Training & Prestigious Participants

• ➤ Training

Most of the “good” European Physicists have presented their first international talks here. I wish that young participants in this meeting will become like them !

• ➤ Prestigious participants



- Nobel Price Winners : J. Steinberger (1988) D. Gross (2004), G. 't Hooft (1999)
- Sakurai price winners 1999: M. A. Shifman:(2008, 2010)
V. Zakharov: (since 1996 & committee member)

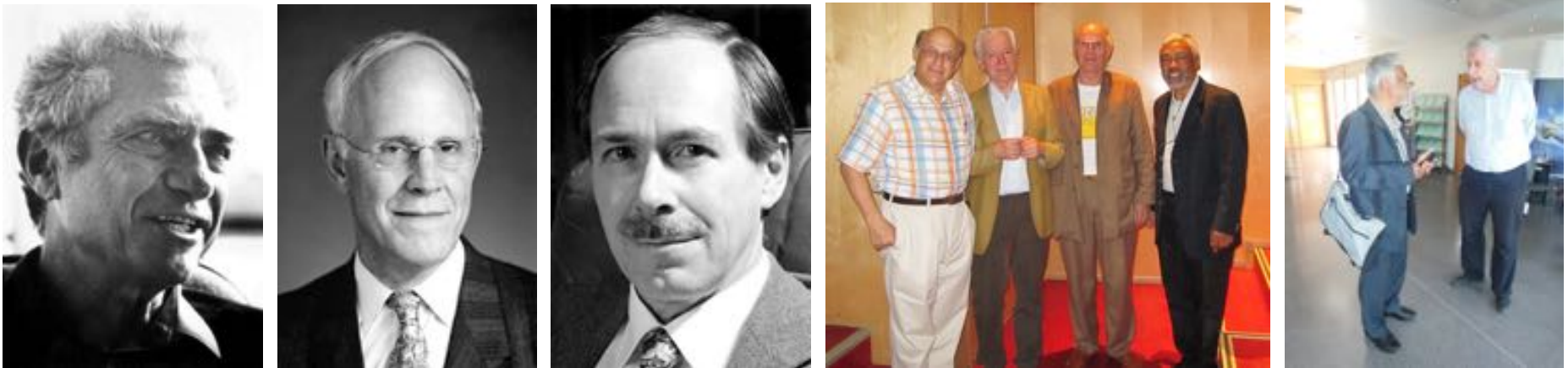


Training & Prestigious Participants

• ➤ Training

Most of the “good” European Physicists have presented their first international talks here. I wish that young participants in this meeting will become like them !

• ➤ Prestigious participants

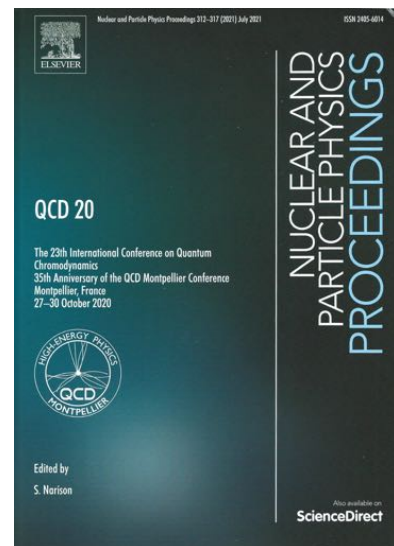
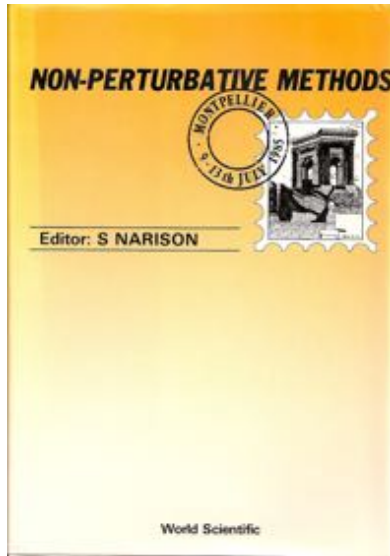


- Nobel Price Winners : J. Steinberger (1988) D. Gross (2004), G. 't Hooft (1999)
- Sakurai price winners 1999: M. A. Shifman:(2008, 2010)
V. Zakharov: (since 1996 & committee member)
- Sakurai price winner 2007: S.J. Brodsky: (1990, 2014)



QCD Proceedings

Sold Here : 25 €



From QCD-Montpellier to HEPMAD-Antananarivo

- **Challenges & Difficulties**



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !)
and Indian Ocean Countries



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !)
and Indian Ocean Countries
- No specialized national researcher in this field



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government

● Achievements



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government

● Achievements

- Series of the HEPMAD International Conferences since 2001.



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government

● Achievements

- Series of the HEPMAD International Conferences since 2001.
- Creation of the iHEPMAD research institute in 2004.



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government

● Achievements

- Series of the HEPMAD International Conferences since 2001.
- Creation of the iHEPMAD research institute in 2004.
- Popularization of HEP :



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government

● Achievements

- Series of the HEPMAD International Conferences since 2001.
- Creation of the iHEPMAD research institute in 2004.
- Popularization of HEP :
 - High schools, Universities,



From QCD-Montpellier to HEPMAD-Antananarivo

● Challenges & Difficulties

- Unique in Sub-Saharan (except South Africa !) and Indian Ocean Countries
- No specialized national researcher in this field
- No financial support from Mundial Bank , UN, EC,...
- No financial support from \neq Malagasy Government

● Achievements

- Series of the HEPMAD International Conferences since 2001.
- Creation of the iHEPMAD research institute in 2004.
- Popularization of HEP :
 - High schools, Universities,
 - Public Institutions (Academie, Alliance Française,...)

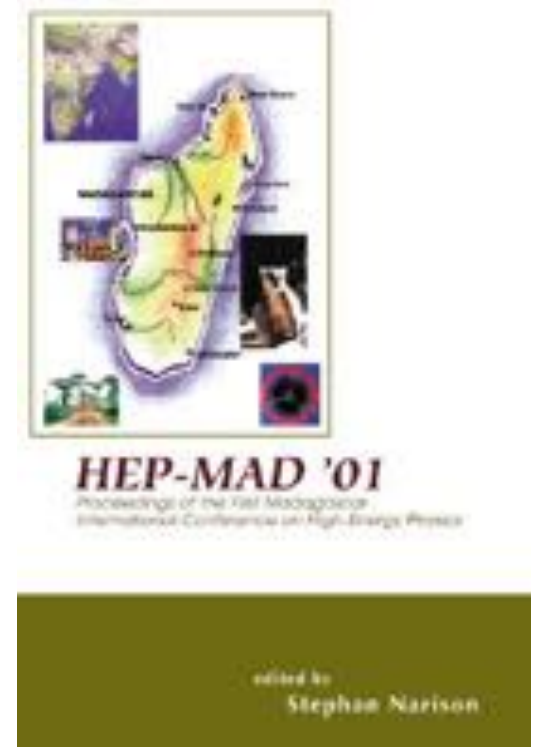


HEPMAD Conference Series & Institute

- ◇ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23

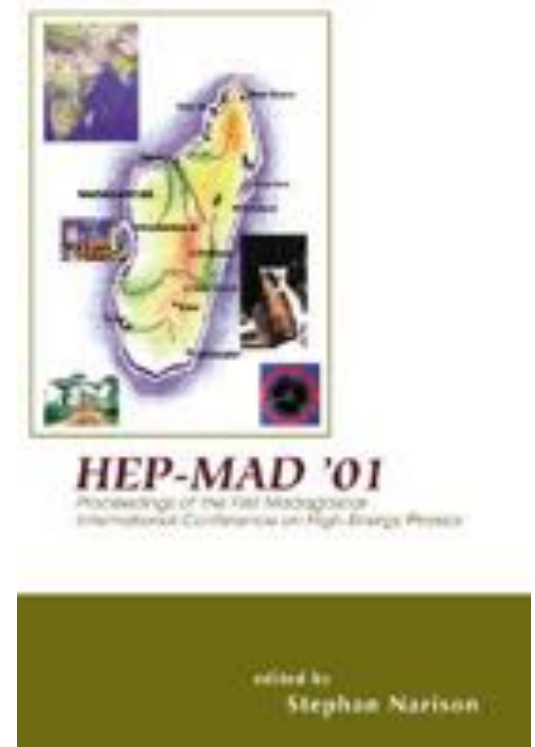
HEPMAD Conference Series & Institute

- ◆ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23



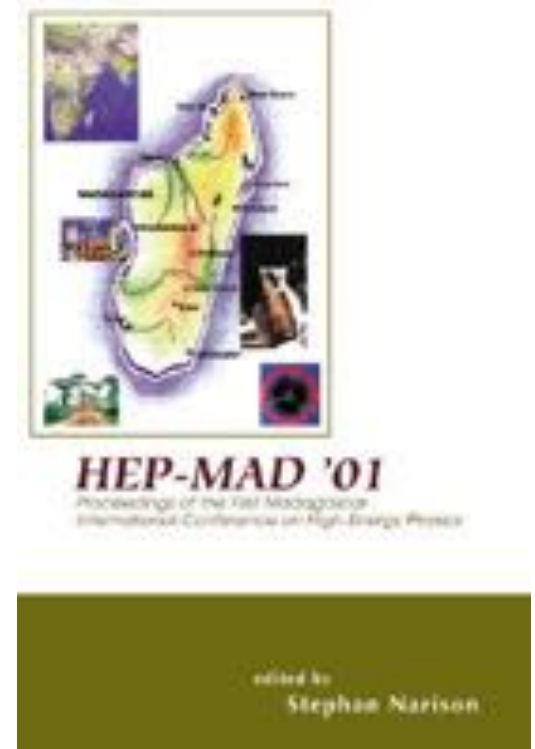
HEPMAD Conference Series & Institute

- ◇ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23
- ♥ HEPMAD Institute 2004



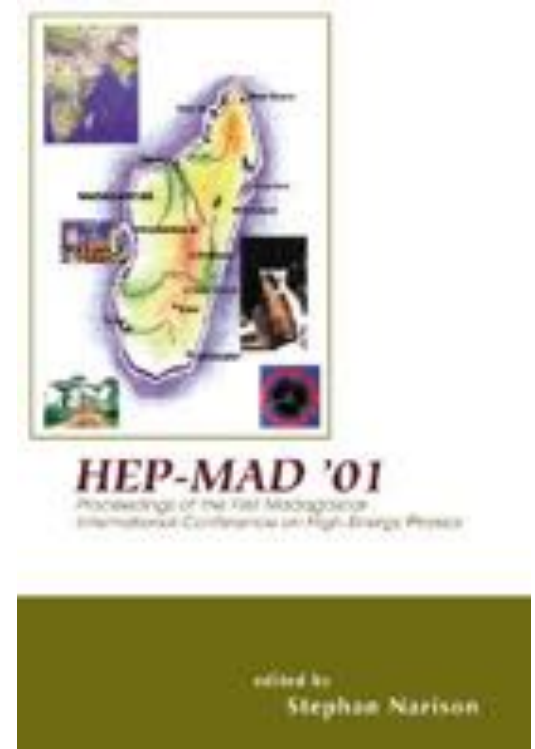
HEPMAD Conference Series & Institute

- ◆ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23
- ♥ HEPMAD Institute 2004



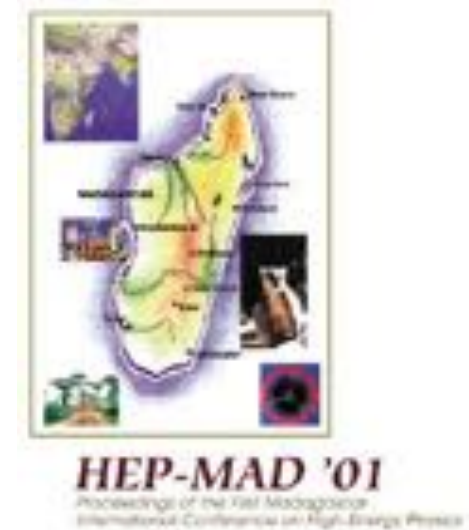
HEPMAD Conference Series & Institute

- ◆ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23
- ♥ HEPMAD Institute 2004
 - Master and PhD (since 2013)



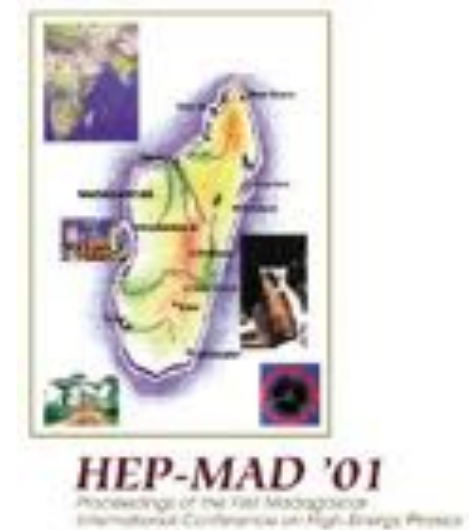
HEPMAD Conference Series & Institute

- ◆ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23
- ♥ HEPMAD Institute 2004
 - Master and PhD (since 2013)
 - Cooperation with CERN-Geneve-CH (LHCb),
ICTP-Trieste-IT, Fermilab-US , Brazil,
Marseille-FR, Montpellier-FR



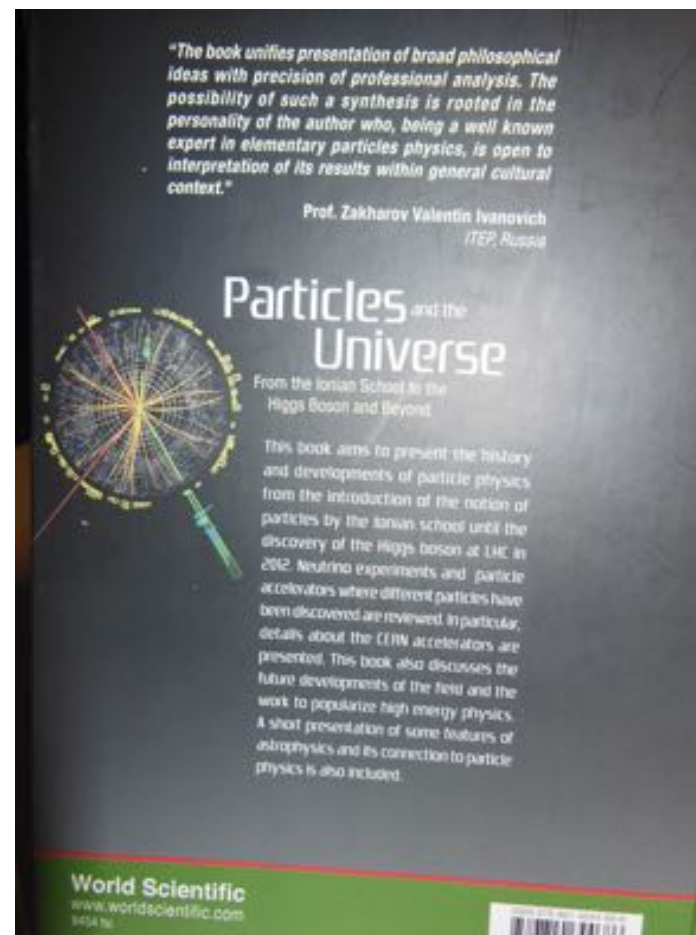
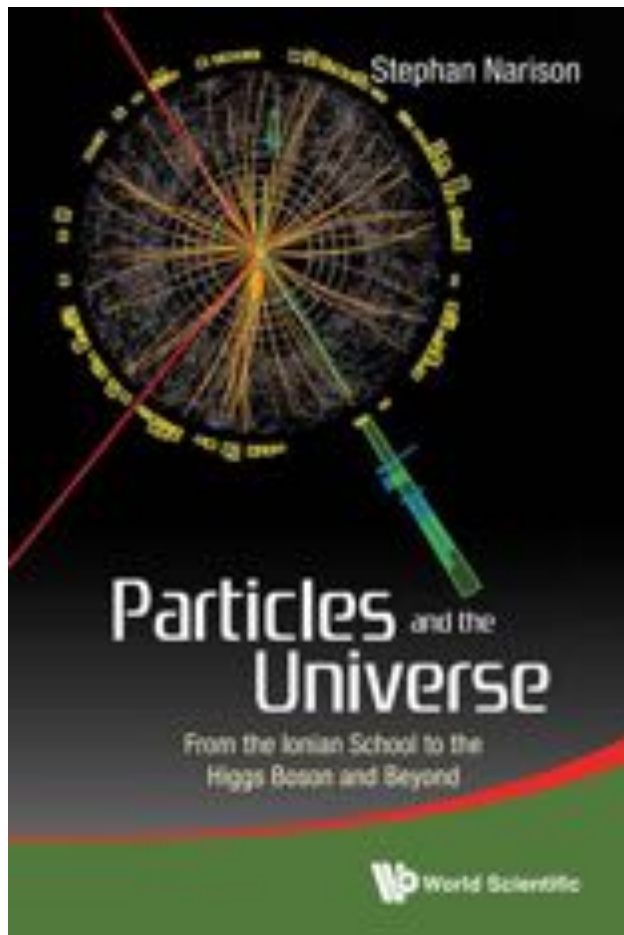
HEPMAD Conference Series & Institute

- ◆ HEPMAD conference since 2001
Unique in Subsaharian & Indian Ocean
HEPMAD 01, 04, 07, 09, 11, 13, 15,
16, 17, 18, 19, 22, 23
- ♥ HEPMAD Institute 2004
 - Master and PhD (since 2013)
 - Cooperation with CERN-Geneve-CH (LHCb),
ICTP-Trieste-IT, Fermilab-US , Brazil,
Marseille-FR, Montpellier-FR
 - Schools : African School of Physics,
CERN-Geneve, Trieste-IT



♥ Popularizing / Promoting HEP in Madagascar

Popularizing Book



Sold by World Scientific Company and On-line by Amazon.com 25€

•  Malagasy Academy

● ◇ Malagasy Academy



● ◇ Malagasy Academy



● ♥ Alliance Française

● ◇ Malagasy Academy



● ♥ Alliance Française





Universities

● ◇ Universities



- ◇ Universities

- ♥ High-Schools

Association Père Pedro



● ◇ Universities



● ♥ High-Schools
Association Père Pedro



- ♦ Universities



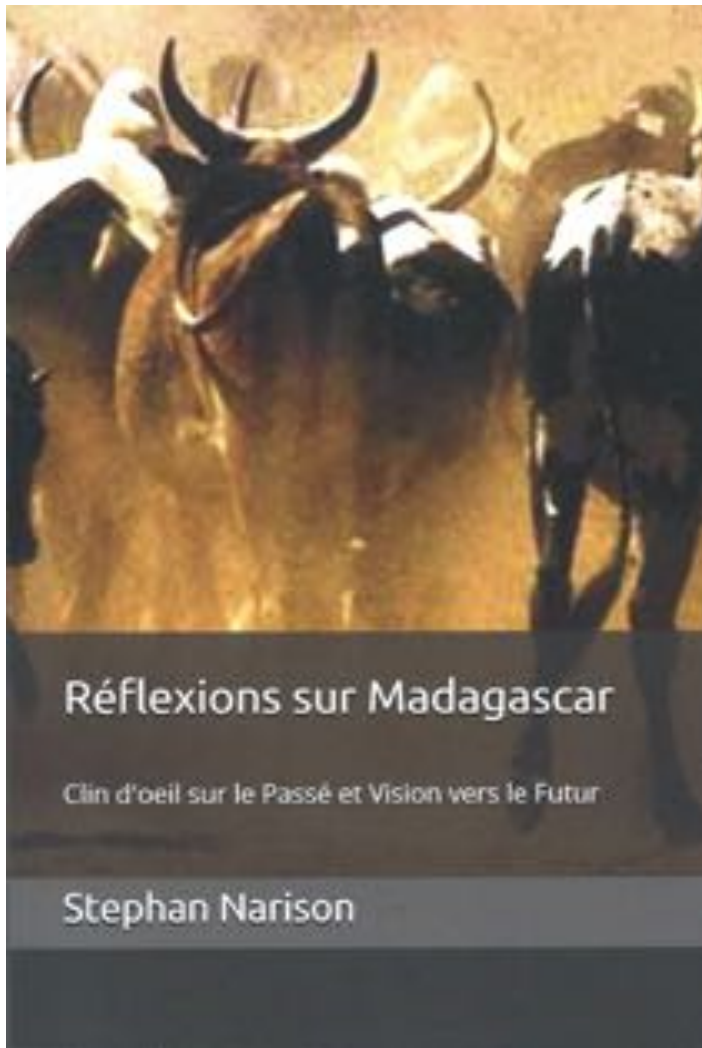
- ♥ High-Schools
Association Père Pedro



- ♠ Association Gasy Miara-Mandroso (AGMM)
Needs more support for developing education :
Donation, Partnership,...



Societal Book



Ce livre présente, d'une manière succincte, les différents aspects de Madagascar, cette île Mystérieuse aux Mille Facettes qui trône sur l'Océan Indien dans l'hémisphère sud. Il s'adresse à tou(te)s ceux (celles) qui veulent connaître, d'une façon simple et rapide la Géographie et l'Histoire de Madagascar depuis son origine jusqu'en 2018 où se déroulent les élections présidentielles. La 1ère partie retrace l'origine du pays et du peuple malgache et son histoire avant l'indépendance en 1960. Les 2ème et 3ème parties présentent la situation politique depuis 1960. Ses conséquences socio-économiques désastreuses sont discutées dans la 4ème partie. La 5ème partie montre l'Association Gasy Miara-Mandroso (AGMM) et ses actions de développement de la physique des hautes énergies (HEP) dans les lycées, collèges, universités et institutions publiques de Madagascar. La vision du futur de l'AGMM sur le développement durable du pays est présentée dans la 6ème partie. L'auteur, en tant que candidat, montre, dans la 7ème partie, les anomalies constatées lors des élections présidentielles 2018. Dans l'annexe se trouvent des photos sur les conférences de vulgarisation et les actions de propagande de l'auteur. Le livre se termine par sa biographie et ses contributions sur la recherche en HEP.



Stephan Narison est Directeur de Recherche Émérite au Laboratoire Univers et Particules du CNRS de Montpellier en physique des Hautes Énergies. Il est spécialisé sur l'approche des règles de somme spectrale de la chromodynamique quantique (QCD). Il est membre de l'Académie Nationale et Grand Croix de l'Ordre National Malgache. Il est Président Fondateur de la Série des Conférences Internationales QCD Montpellier et HEPMAD Antananarivo, de l'institut de recherche iHEPMAD et de l'Association Gasy Miara-Mandroso.

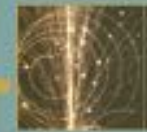


25€ in Amazon.com - English version in preparation

HEPMAD Conference Series



HEPMAD24



14th High-Energy Physics International Conference
Antananarivo - Madagascar (21-26 October 2024)



HEPMAD24 TOPICS

Strong and Electroweak Interactions
Physics at Colliders (LHC,...)
Exotic Hadron Spectroscopy
Astrophysics
Climatology and Oceanography
Applied Nuclear Physics
Sustainable Energies

HEPMAD24 Chair

S. Narison
Laboratoire Univers et Particules
CNRS - UM - Montpellier - France

HEPMAD24 Scientific Committee

A. Di Giacomo (Pisa)
M. Knecht (Marseille)
A. Pich (Valencia)
G. Rossi (Roma)
V.I. Zakharov (Munich)

HEPMAD24 Organizing Committee

Hepmad Research Institute (iHEPMAD)
Association Gasy Miara-Mandroso (AGMM)

HEPMAD24 Local Organizing Committee

S. Narison
Laboratoire Univers et Particules
Université de Montpellier
Case 070 Place Eugene Bataillon
34095 Montpellier Cedex France
Tel: +33 6 08 07 86 91

HEPMAD24 Contact

snarison@yahoo.fr/qcdconf@gmail.com

HEPMAD24 Website

<https://www.lupm.in2p3.fr/users/qcd/HEPMAD24>

HEPMAD24 Dates

Registration : 27 September 2024
Abstracts : 27 September 2024
Proceedings : 6 December 2024



HEPMAD Conf. & the HEPMAD Cultural Center

- *HEPMAD 22 : Opening at the Malagasy Academy of Sciences*

HEPMAD Conf. & the HEPMAD Cultural Center

- *HEPMAD 22 : Opening at the Malagasy Academy of Sciences*



HEPMAD Conf. & the HEPMAD Cultural Center

- *HEPMAD 22 : Opening at the Malagasy Academy of Sciences*



HEPMAD Conf. & the HEPMAD Cultural Center

- *HEPMAD 22 : Opening at the Malagasy Academy of Sciences*



- *HEPMAD23 : Opening at the HEPMAD Cultural Center
Equipment from TWAS Grant (Trieste-IT)*



HEPMAD Conf. & the HEPMAD Cultural Center

- *HEPMAD 22 : Opening at the Malagasy Academy of Sciences*



- *HEPMAD23 : Opening at the HEPMAD Cultural Center
Equipment from TWAS Grant (Trieste-IT)*



HEPMAD Conf. & the HEPMAD Cultural Center

- *HEPMAD 22 : Opening at the Malagasy Academy of Sciences*



- *HEPMAD23 : Opening at the HEPMAD Cultural Center
Equipment from TWAS Grant (Trieste-IT)*

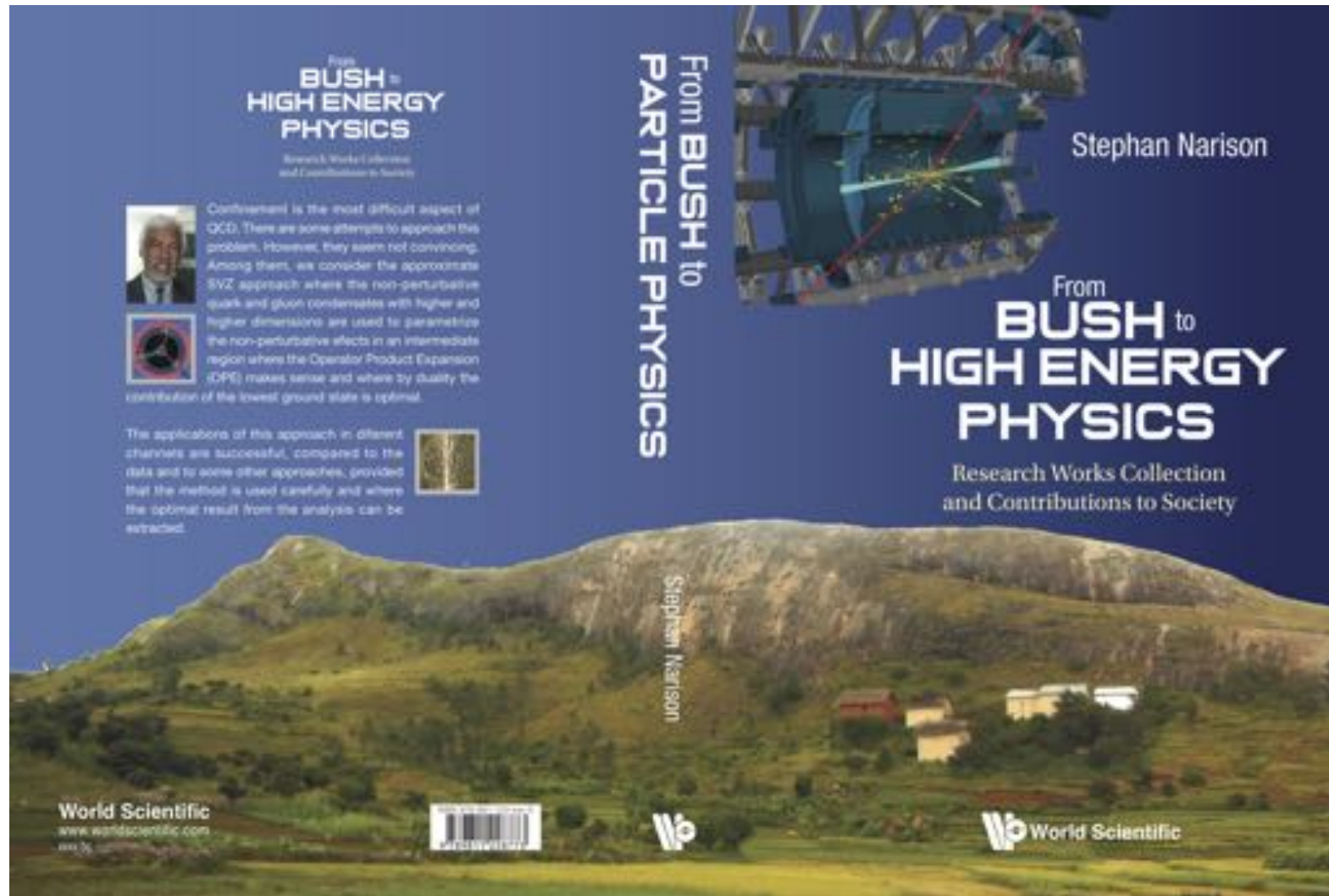


- *Association for Developing Science in Madagascar (AGMM)*



♥ *Research Works Collection and Contributions to Society*

For Large Public and Researcher Experts



300 pages Edited by World Scientific - to appear in October 2024.



Proceedings



- ♣ Published by : Elsevier : Particle & Nuclear Physics Proceedings

Proceedings



- ♣ Published by : Elsevier : Particle & Nuclear Physics Proceedings
- ◇ Deadline: 1st September 2024

Proceedings



- ♣ Published by : Elsevier : Particle & Nuclear Physics Proceedings
- ◇ Deadline: 1st September 2024
- ♠ Length
 - ≤ 6 pages 25mn One original topics
 - ≤ 8 pages 25 mn One topics review
 - ≤ 10 pages 30 mn Wide review

Proceedings



- ♣ Published by : Elsevier : Particle & Nuclear Physics Proceedings
- ◇ Deadline: 1st September 2024
- ♠ Length
 - ≤ 6 pages 25mn One original topics
 - ≤ 8 pages 25 mn One topics review
 - ≤ 10 pages 30 mn Wide review
- ♣ Templates : Elsword two-column Format
 - A sample can be downloaded from the Conference / Elsevier Sites

Misaotra Anareo @ ny Faharetana !

Merci pour Votre Patience !

Thanks for Your Patience !



<https://www.lupm.in2p3.fr/users/qcd/agmm>

<https://m.facebook.com/groups/239825772695927?ref=bookmarks>