



The Abdus Salam  
International Centre  
for Theoretical Physics



Activity SMR: 3500

## Workshop on Quantum Information Theory and Thermodynamics at the Nanoscale

2 - 6 March 2020

Al-Hoceima, Morocco

### Co-sponsors:



### Preliminary List of Participants

Total Number of visitors: 75

| No.             | NAME and INSTITUTE  | Nationality                             | Function        |
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| <b>DIRECTOR</b> |   | <b>Total number in this function: 9</b> |                 |
| 1.              | <b>EL ALLATI Abderrahim</b><br><br>Permanent Institute:<br>University Mohammed I<br>Faculty of Sciences & Technologies<br>B.P.3, C.P. 32003<br>Ajdir<br>Al Hoceima<br>MOROCCO                                   | MOROCCO                                 | <b>DIRECTOR</b> |
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| 3.              | <b>EL HADDADI Anass</b><br><br>Permanent Institute:<br>Abdelmalek Essaadi University at Al Hoceima<br>Faculty of Sciences<br>B.P. 2121<br>93000 Tetouan<br>MOROCCO  | MOROCCO                                 | <b>DIRECTOR</b> |
| 4.              | <b>HASSOUNI Yassine</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO                               | MOROCCO                                 | <b>DIRECTOR</b> |

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| 5.  | <b>MOURABIT Taoufik</b><br><br>Permanent Institute:<br>Abdelmalek Essaadi University<br>Faculte des Sciences et Techniques<br>B.P. 416<br>90000 Tanger<br>MOROCCO  | MOROCCO     | <b>DIRECTOR</b> |
| 6.  | <b>PALMA Massimo</b><br><br>Permanent Institute:<br>Universita' degli Studi di Palermo<br>Dipartimento di Fisica e Chimica 'Emilio Segre'<br>Via Archirafi. 36<br>90123 Palermo<br>ITALY   | ITALY       | <b>DIRECTOR</b> |
| 7.  | <b>PATERNOSTRO Mauro</b><br><br>Permanent Institute:<br>Queen's University Belfast<br>School of Mathematics and Physics<br>Centre for Theoretical Atomic, Molecular and Optical Physics<br>David Bates Building<br>Belfast BT7 1NN<br>UNITED KINGDOM | ITALY       | <b>DIRECTOR</b> |
| 8.  | <b>TAYALATI Yahya</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO  | MOROCCO     | <b>DIRECTOR</b> |
| 9.  | <b>ZEROUALI El Hassan</b><br><br>Permanent Institute:<br>Universite' Mohammed V<br>Faculte des Sciences<br>Dept. Mathematiques et Informatique<br>Agdal<br>B.P. 1014<br>Rabat<br>MOROCCO   | MOROCCO     | <b>DIRECTOR</b> |

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| <b>SPEAKER</b> |  | <b>Total number in this function: 19</b> |                |
| 10.            | <b>AZZOUZ Mohamed</b><br><br>Permanent Institute:<br>International University of Rabat<br>Aerospace Engineering<br>Sala Al Jadida<br>Rabat-Sale<br>Rabat<br>MOROCCO                                | MOROCCO                                  | <b>SPEAKER</b> |
| 11.            | <b>BELHAJ Adil</b><br><br>Permanent Institute:<br>Fac. des Sciences<br>Universite Mohamed V<br>Rabat<br>MOROCCO  | MOROCCO                                  | <b>SPEAKER</b> |
| 12.            | <b>BRAUN Daniel</b><br><br>Permanent Institute:<br>Eberhard-Karls-Universitat Tuingen<br>Institut Fur Theoretische Physik<br>Auf Der Morgenstelle 14<br>D-72076 Tuingen<br>GERMANY                 | GERMANY                                  | <b>SPEAKER</b> |
| 13.            | <b>BUCHLEITNER Andreas Einar Maximilian</b><br><br>Permanent Institute:<br>Albert Ludwigs Universitaet Freiburg<br>Physikalisches Institut<br>Hermann-Herder-Str. 3<br>D-79104 Freiburg<br>GERMANY | GERMANY                                  | <b>SPEAKER</b> |
| 14.            | <b>CHRUSCINSKI Dariusz</b><br><br>Permanent Institute:<br>Nicolaus Copernicus University<br>Institute of Physics<br>Division of Mathematical Physics<br>Grudziadzka 5<br>87-100 Torun<br>POLAND    | POLAND                                   | <b>SPEAKER</b> |

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| 15. | <b>DAOUD Mohammed</b>   | MOROCCO  | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Universite Ibn Tofail<br>Faculte Des Sciences<br>Departement de Physique<br>B.P. 133<br>14000 Kenitra<br>MOROCCO  |  |                |
| 16. | <b>DE CHIARA Gabriele</b>   | ITALY  | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Queen's University Belfast<br>School of Mathematics and Physics<br>Centre for Theoretical Atomic, Molecular and Optical Physics<br>Old Physics Building<br>Belfast BT7 1NN<br>UNITED KINGDOM                                  |  |                |
| 17. | <b>EL BOUDOUTI El Houssaine</b>   | MOROCCO  | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Universite' Mohamed I<br>Faculte Des Sciences<br>Departement de Physique<br>B.P. 524<br>60 000 Oujda<br>MOROCCO   | Universite Des Sciences Et Technologies de Lille<br>U.F.R. de Physique<br>Bat P.7<br>59655 Villeneuve d'Ascq<br>FRANCE |                |
| 18. | <b>GIORGI Gian Luca</b>   | ITALY  | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Institute for Cross-Disciplinary Physics and Complex Systems<br>Campus Universitat de les Illes Balears Carretera de Valldemossa- km<br>7-5 Edificio Cientifico-Tecnico<br>07122 Palma De Mallorca<br>Islas Baleares<br>SPAIN |  |                |
| 19. | <b>KIESEL Nikolai</b>   | GERMANY  | <b>SPEAKER</b> |
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| 20. | <b>LUTZ Eric</b><br><br>Permanent Institute:<br>Universitat Stuttgart<br>Institut Fur Theoretische Physik I<br>D-70550 Stuttgart<br>GERMANY  | GERMANY     | <b>SPEAKER</b>   |
| 21. | <b>MANCINI Stefano</b><br><br>Permanent Institute:<br>University of Camerino<br>School of Science and Technology<br>Physics Division<br>via Madonna delle Carceri, 9<br>Camerino 62032 MC<br>ITALY                         | ITALY       | <b>SPEAKER</b>   |
| 22. | <b>MANZANO DIOSDADO Daniel</b><br><br>Permanent Institute:<br>Universidad de Granada<br>Facultad de Ciencias<br>Depto. de Electromagnetismo y Fisica de la Materia<br>Avenida de Fuentenueva s/n<br>18007 Granada<br>SPAIN | SPAIN       | <b>SPEAKER</b>   |
| 23. | <b>MANZANO PAULE Gonzalo</b><br><br>Permanent Institute:<br>Scuola Normale Superiore SNS<br>Dipt. di Fisica<br>Classe di Scienze Matematiche e Naturali<br>Piazza dei Cavalieri, 7<br>I-56126 Pisa<br>ITALY                | SPAIN       | <b>SPEAKER</b><br><br>Condensed Matter and Statistical Physics<br>Abdus Salam International Centre for Theoretical<br>Physics ICTP<br>Strada Costiera 11<br>Trieste 34151<br>ITALY |
| 24. | <b>PLASTINA Francesco</b><br><br>Permanent Institute:<br>Universita' della Calabria<br>Dip. di Fisica<br>Campus di Arcavacata<br>Ponte Pietro Bucci, Cubo 31C<br>87036 Arcavacata di Rende (CS)<br>ITALY                   | ITALY       | <b>SPEAKER</b>   |

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| 25. | <b>SENIOR Jorden</b>  |                | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Aalto University<br>School of Science<br>Quantum Computing and Devices<br>Tietotie 3<br>P.O. Box 13500<br>FI-00076 Aalto<br>FINLAND                         |                |                |
| 26. | <b>VACCHINI Bassano Maria</b>   | ITALY          | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Universita' degli Studi di Milano<br>Dipartimento di Fisica<br>Via Celoria, 16<br>20133 Milano<br>ITALY   |                |                |
| 27. | <b>WHITNEY Robert Steven</b>  | UNITED KINGDOM | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Laboratoire de Physique et Modelisation des Milieux Condenses<br>Maison de Magisteres CNRS<br>BP 166<br>25 avenue des Martyrs<br>F-38042 Grenoble<br>FRANCE |                |                |
| 28. | <b>ZYCZKOWSKI Karol</b>   | POLAND         | <b>SPEAKER</b> |
|     | Permanent Institute:<br>Jagiellonian University<br>Institute of Physics<br>Reymonta 4<br>30-059 Cracow<br>POLAND  |                |                |

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| <b>PARTICIPANT</b> |  | <b>Total number in this function: 47</b> |                    |
| 29.                | <b>ABAACH SANAA</b>  | MOROCCO                                  | <b>PARTICIPANT</b> |
|                    | Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO |  |                    |
| 30.                | <b>AHAMI NIZAR</b>   | MOROCCO                                  | <b>PARTICIPANT</b> |
|                    | Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO |  |                    |
| 31.                | <b>AIT MANSOUR Hicham</b>  | MOROCCO                                  | <b>PARTICIPANT</b> |
|                    | Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO |  |                    |
| 32.                | <b>ALILOUTE Soumia</b>   | MOROCCO                                  | <b>PARTICIPANT</b> |
|                    | Permanent Institute:<br>Abdelmalek Essaadi University at Al Hoceima<br>Faculty of Sciences<br>B.P. 2121<br>93000 Tetouan<br>MOROCCO                |  |                    |



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| 33. | <b>AMELLAL Hicham</b><br><br>Permanent Institute:<br>Mohammed V University Agdal<br>Faculty of Sciences Rabat<br>Ibn Battouta<br>10080 Rabat<br>Rabat Sala zemour Zaayr<br>MOROCCO | MOROCCO     | <b>PARTICIPANT</b> |
| 34. | <b>BAKMOU Lahcen</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO     | MOROCCO     | <b>PARTICIPANT</b> |
| 35. | <b>BEGOC Bleuenn</b>   | FRANCE      | <b>PARTICIPANT</b> |
| 36. | <b>BENABDALLAH Fadwa</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO | MOROCCO     | <b>PARTICIPANT</b> |
| 37. | <b>COOPMANS Luuk Joseph</b><br><br>Permanent Institute:<br>Dublin Institute for Advanced Studies<br>10 Burlington Rd<br>Dublin 4<br>IRELAND  | NETHERLANDS | <b>PARTICIPANT</b> |

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| 38. | <b>DAHBI Zakaria</b><br><br>Permanent Institute:<br>Sultan Moulay Slimane University<br>Polydisciplinary Faculty<br>23000 Beni Mellal<br>MOROCCO  | MOROCCO              | <b>PARTICIPANT</b> |
| 39. | <b>EKOSSO MANKEM Christelle</b><br><br>Permanent Institute:<br>University of Dschang<br>Faculty of Science<br>Physics Department<br>Condensed Matter Labarotory<br>Dschang<br>Po Box 67 Dschang<br>West<br>REPUBLIC OF CAMEROON | REPUBLIC OF CAMEROON | <b>PARTICIPANT</b> |
| 40. | <b>EL ABOUTI Ossama</b><br><br>Permanent Institute:<br>Laboratoire de Dynamique et De optique des Materiaux, LDOM<br>Faculte de Sciences<br>BP 1144 Imzouren, Hoceima<br>Ouija<br>35000 Al Hoceima<br>MOROCCO                   | MOROCCO              | <b>PARTICIPANT</b> |
| 41. | <b>EL ANOUZ KHADIJA</b><br><br>Permanent Institute:<br>Abdelmalek Essaadi University at Al Hoceima<br>Faculty of Sciences<br>B.P. 2121<br>93000 Tetouan<br>MOROCCO  | MOROCCO              | <b>PARTICIPANT</b> |
| 42. | <b>EL AYACHI Fadwa</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO  | MOROCCO              | <b>PARTICIPANT</b> |

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| 43. | <b>EL BARBARI Monia</b><br><br>Permanent Institute:<br>University Abdelmalek Essaïdi, Physics Departement, Radiation and<br>nuclear systems Laboratory<br>Mhannech 2. BP 93030<br>2121 Tetouan<br>Tetouan Tanger<br>MOROCCO | MOROCCO     | <b>PARTICIPANT</b> |
| 44. | <b>EL BIR Oumayma</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO   | MOROCCO     | <b>PARTICIPANT</b> |
| 45. | <b>EL HARCHICHI Azzedine</b>  | MOROCCO     | <b>PARTICIPANT</b> |
| 46. | <b>EL HAWARY Khadija</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO  | MOROCCO     | <b>PARTICIPANT</b> |
| 47. | <b>EL OUADRHIRI Faical</b><br><br>Permanent Institute:<br>Sidi Mohamed Ben Abdellah University of Fez<br>Imouzzer Road<br>BP 2626<br>30000 Fez<br>Fez-Boulmane<br>MOROCCO   | MOROCCO     | <b>PARTICIPANT</b> |

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| 48. | <b>FOBASSO MBOGNOU Florette Corinne</b>   | REPUBLIC OF CAMEROON | <b>PARTICIPANT</b> |
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| 49. | <b>GIGENA Nicolas Alejandro</b>   | ARGENTINA            | <b>PARTICIPANT</b> |
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| 50. | <b>HAFINA Bouchta</b>   | MOROCCO              | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Sultan Moulay Slimane University<br>Faculty of Science and Technology<br>Department of Physics<br>Laboratory of physics and Mechanics of Materials<br>B.P 523<br>23400 Beni Mellal<br>MOROCCO |                      |                    |
| 51. | <b>HAJJI HASNAA</b>   | MOROCCO              | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Fac. des Sciences<br>Universite Mohamed V<br>Rabat<br>MOROCCO   |                      |                    |

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| 52. | <b>HAMMAM KENZA</b>   | MOROCCO     | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>University Mohammed V<br>Equipe des Sciences et de Rayonnement ESMAR<br>Faculty of Sciences<br>B.P. 1014<br>Avenue Ibn Battouta<br>Agdal<br>Rabat<br>MOROCCO                      |             |                    |
| 53. | <b>KHLIFI Youssef</b>   | MOROCCO     | <b>PARTICIPANT</b> |
| 54. | <b>KHOUJA Youssef</b>   | MOROCCO     | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Fac. des Sciences<br>Universite Mohamed V<br>Rabat<br>MOROCCO   |             |                    |
| 55. | <b>M'ZERD Safae</b>   | MOROCCO     | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Universite Sidi Mohamed Ben Abdellah<br>Laboratoire de Physique du Solide<br>Faculte des Sciences<br>Departement de Physique<br>Dhar Mehraz<br>B.P. 1796, Atlas<br>Fes<br>MOROCCO |             |                    |
| 56. | <b>MANSOUR Mostafa</b>  | MOROCCO     | <b>PARTICIPANT</b> |
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| 57. | <b>MATHE Levente</b><br><br>Permanent Institute:<br>National Institute for Research and Development of Isotopic and<br>Molecular Technologies<br>65-103 Donath Str.<br>400293 Cluj Napoca<br>ROMANIA        | ROMANIA     | <b>PARTICIPANT</b> |
| 58. | <b>MITRA ARINDAM</b><br><br>Permanent Institute:<br>Institute of Mathematical Sciences<br>4th Cross Road<br>CIT Campus, Taramani<br>Chennai 600113<br>Tamil Nadu<br>INDIA                                   | INDIA       | <b>PARTICIPANT</b> |
| 59. | <b>MOUKRIM Zakaria</b>  | MOROCCO     | <b>PARTICIPANT</b> |
| 60. | <b>MZAOUALI Zakaria</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO                           | MOROCCO     | <b>PARTICIPANT</b> |
| 61. | <b>ONYENEGECHA Chibueze Paul</b><br><br>Permanent Institute:<br>Federal University of Technology<br>Department of Physics<br>School of Sciences<br>P.M.B 1526,<br>Ihiagwa<br>Owerri<br>Imo State<br>NIGERIA | NIGERIA     | <b>PARTICIPANT</b> |

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| 62. | <b>OYUN OPEYEMI</b>   | NIGERIA     | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Department of Physics<br>Faculty of Science<br>University of Ilorin<br>P.M.B 1515<br>Ilorin 234031<br>Kwara State<br>NIGERIA  |             |                    |
| 63. | <b>PATHANIA NEHA</b>  | INDIA       | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Centre for Theoretical Physics<br>Jamia Millia Islamia<br>Jamia Nagar<br>New Delhi 110025<br>INDIA  |             |                    |
| 64. | <b>PEREIRA JANOVITCH BROINIZI Marcelo</b>   | BRAZIL      | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>Institute of Physics<br>University of Sao Paulo<br>Materials Physics Department<br>Sampa Group<br>Rua do Matão Travessa R Nr-187<br>Cidade Universitária<br>Sao Paulo 05508-090<br>BRAZIL |             |                    |
| 65. | <b>PIORAS-TIMBOLMAS Larisa</b>  | ROMANIA     | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>National Institute for R & D of Isotopic and Molecular Technologies<br>Str. Donath 65-103, P.O. Box 700<br>400293 Cluj Napoca<br>Cluj<br>ROMANIA  |             |                    |
| 66. | <b>RAMOS-MARIMON Carlos</b>   | SPAIN       | <b>PARTICIPANT</b> |
|     | Permanent Institute:<br>University of Cologne<br>Instituut for Theoretical Physics<br>Zuelpicher Strasse 77<br>50937 Cologne<br>Nordrhein Westfalen<br>GERMANY  |             |                    |

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| 67. | <b>SAHA Tanmay</b><br><br>Permanent Institute:<br>Institute of Mathematical Sciences<br>4th Cross Road<br>CIT Campus, Taramani<br>Chennai 600113<br>Tamil Nadu<br>INDIA     | INDIA       | <b>PARTICIPANT</b>   |
| 68. | <b>SAIF Farhan</b><br><br>Permanent Institute:<br>Department of Electronics<br>Quaid-i-Azam University<br>3rd Avenue<br>Islamabad 45320<br>PAKISTAN                         | PAKISTAN    | <b>PARTICIPANT</b>   |
| 69. | <b>SALADO MEJIA MARIANA</b>   | MEXICO      | <b>PARTICIPANT</b><br><br>National Institute of Astrophysics,<br>Optics and Electronics<br>Luis Enrique Erro No.1,<br>Santa Maria Tonantzintla<br>Puebla<br>MEXICO |
| 70. | <b>SARKAR Anupam</b><br><br>Permanent Institute:<br>Institute of Mathematical Sciences<br>4th Cross Road<br>CIT Campus, Taramani<br>Chennai 600113<br>Tamil Nadu<br>INDIA   | INDIA       | <b>PARTICIPANT</b>   |
| 71. | <b>SASEENDRAN Sangeeth</b><br><br>Permanent Institute:<br>Universita' degli Studi di Parma<br>Istituto di Scienze Chimiche<br>Viale Delle Science<br>I-43100 Parma<br>ITALY | INDIA       | <b>PARTICIPANT</b>   |



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| 72. | <b>SBIRI ABDELLAH</b><br><br>Permanent Institute:<br>Sultan Moulay Slimane University<br>Mghila, BP: 592<br>23000 Beni Mellal<br>Tadla Azilal<br>MOROCCO  | MOROCCO     | <b>PARTICIPANT</b> |
| 73. | <b>SEDDIK Sanaa</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO                                     | MOROCCO     | <b>PARTICIPANT</b> |
| 74. | <b>SEIDA Chaibata</b><br><br>Permanent Institute:<br>Faculty of Sciences<br>Mohamed V university<br>Physics Department<br>4 Avenue Ibn Battouta<br>B.P:1014<br>Rabat<br>MOROCCO                                   | MOROCCO     | <b>PARTICIPANT</b> |
| 75. | <b>ZIANE Mustapha</b><br><br>Permanent Institute:<br>University Mohammed V<br>Equipe des Sciences et de Rayonnement ESMAR<br>Faculty of Sciences<br>B.P. 1014<br>Avenue Ibn Battouta<br>Agdal<br>Rabat<br>MOROCCO | MOROCCO     | <b>PARTICIPANT</b> |