

# Moroccan PhD students at CERN

Morocco at CERN and in ATLAS

Morocco/CERN Doctoral students

# ATLAS Collaboration

(Status January 2010)

37 Countries  
172 Institutions  
2900 Scientific participants total  
(1000 Students)



Albany, Alberta, NIKHEF Amsterdam, Ankara, LAPP Ancey, Argonne NL, Arizona, UT Arlington, Athens, NTU Athens, Baku, IFAE Barcelona, Belgrade, Bergen, Berkeley LBL and UC, HU Berlin, Bern, Birmingham, UAN Bogota, Bologna, Bonn, Boston, Brandeis, Brasil Cluster, Bratislava/SAS Kosice, Brookhaven NL, Buenos Aires, Bucharest, Cambridge, Carleton, CERN, Chinese Cluster, Chicago, Chile, Clermont-Ferrand, Columbia, NBI Copenhagen, Cosenza, AGH UST Cracow, IFJ PAN Cracow, SMU Dallas, UT Dallas, DESY, Dortmund, TU Dresden, JINR Dubna, Duke, Edinburgh, Frascati, Freiburg, Geneva, Genoa, Giessen, Glasgow, Göttingen, LPSC Grenoble, Technion Haifa, Hampton, Harvard, Heidelberg, Hiroshima IT, Indiana, Innsbruck, Iowa SU, Iowa, UC Irvine, Istanbul Bogazici, KEK, Kobe, Kyoto, Kyoto UE, Lancaster, UN La Plata, Lecce, Lisbon LIP, Liverpool, Ljubljana, QMW London, RHBNC London, UC London, Lund, UA Madrid, Mainz, Manchester, CPPM Marseille, Massachusetts, MIT, Melbourne, Michigan, Michigan SU, Milano, Minsk NAS, Minsk NCPHEP, Montreal, McGill Montreal, **RUPHE Morocco**, FIAN Moscow, ITEP Moscow, MEPhI Moscow, MSU Moscow, LMU Munich, MPI Munich, Nagasaki IAS, Nagoya, Naples, New Mexico, New York, Nijmegen, BINP Novosibirsk, Ohio SU, Okayama, Oklahoma, Oklahoma SU, Olomouc, Oregon, LAL Orsay, Osaka, Oslo, Oxford, Paris VI and VII, Pavia, Pennsylvania, Pisa, Pittsburgh, CAS Prague, CU Prague, TU Prague, IHEP Protvino, Regina, Rome I, Rome II, Rome III, Rutherford Appleton Laboratory, DAPNIA Saclay, Santa Cruz UC, Sheffield, Shinshu, Siegen, Simon Fraser Burnaby, SLAC, NPI Petersburg, Stockholm, KTH Stockholm, Stony Brook, Sydney, Sussex, AS Taipei, Tbilisi, Tel Aviv, Thessaloniki, Tokyo ICEPP, Tokyo MU, Tokyo Tech, Toronto, TRIUMF, Tsukuba, Tufts, Udine/ICTP, Uppsala, UI Urbana, Valencia, UBC Vancouver, Victoria, Waseda, Washington, Weizmann Rehovot, FH Wiener Neustadt, Wisconsin, Wuppertal, Würzburg, Yale, Yerevan

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# ATLAS Membership

[Options](#)

User: fasnacht | Role: National Contact Physicist(CERN)

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## RUPHE Morocco

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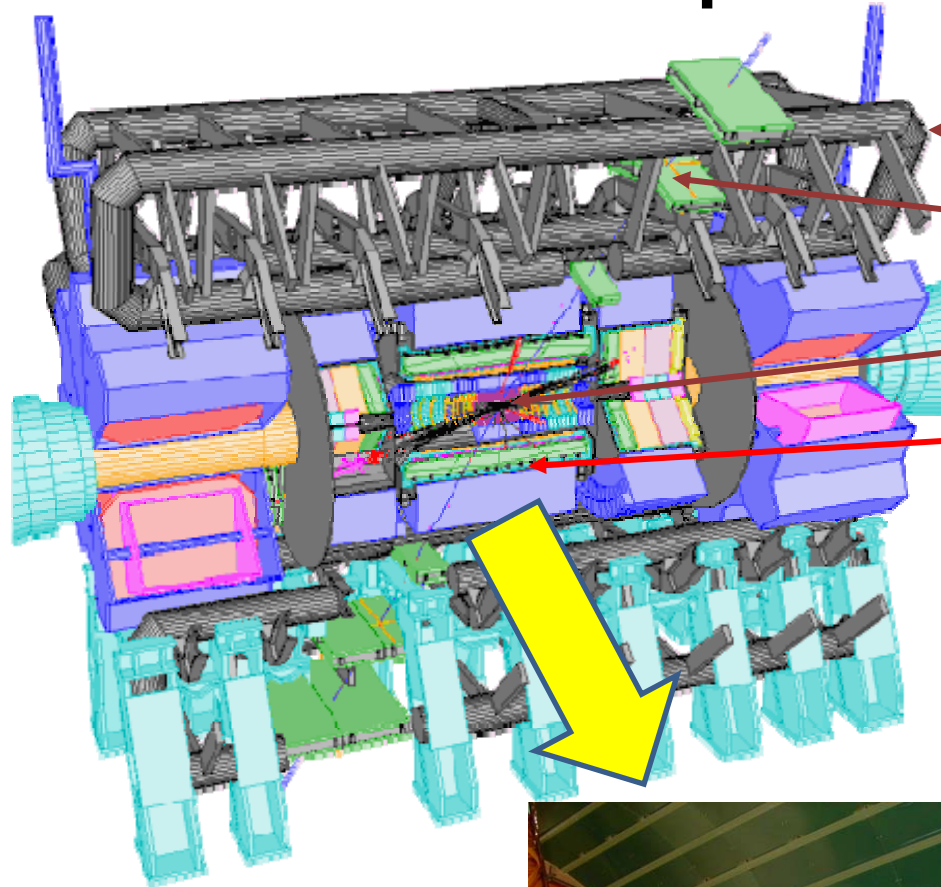
### Institute Information

<b>Name</b>	Reseau Universitaire de Physique des Hautes Energies, Maroc	<b>Address</b>	Universit'e Hassan II, Facult'e des Sciences Ain Chock, B.P. 5366, MA - Casablanca; Universit'e Mohammed V, Facult'e des Sciences, BP 1014, MO - Rabat
<b>Short Name</b>	RUPHE Morocco	<b>Phone</b>	+212 661 07 45 23
<b>Fax</b>	+212 5 22 23 06 74	<b>Secretary</b>	
<b>Secretary Phone</b>		<b>Secretary Email</b>	
<b>Webpage</b>	-	<b>Cluster</b>	RUPHE Morocco
<b>Cluster Comments</b>	Cluster contains Casablanca, Rabat, Marrakech, Oujda, CNESTEN Rabat	<b>Funding agency</b>	Morocco
<b>Country</b>	Morocco		

19 active members (1/1/2010)

27 members since start of the Collaboration

# Main ATLAS Components/Morocco contribution



- Superconducting magnets
  - Muon spectrometer
  - Tracking system
  - Calorimetry system
    - Hadronic Calorimeter
    - EM barrel
      - Preshower
- Morocco contributed to electrodes and associated electronics*

**Today Morocco contributes to Operation and Physics**



# Job opportunities for students

## Student Work Placements

How about spending your university training period in an exciting international and multidisciplinary environment at the forefront of engineering, technology and physics?

### TECHNICAL STUDENT PROGRAMME

- Engineering, IT or Applied Physics
- Paid Practical training, final project
- 4 - 12 months, over 100 places



### SUMMER STUDENT PROGRAMME (MEMBER STATES\* / NON-MEMBER STATES)

- Engineering, IT, Physics or Physical Chemistry
- Academic training lectures, project report, workshops and visits
- 8-13 weeks in summer

### DOCTORAL STUDENT PROGRAMME

- Engineering, IT or Applied Physics
- Academic training & PhD thesis
- 12 - 36 months

Based on this program, made a special “Morocco” (NMS) arrangement

# About the Morocco “special” program

- **Agreement between four parties: CERN, “Sharing Knowledge Foundation”, “Académie Hassan II des Sciences et Techniques” and RUPHE (Réseau Universitaire de Physique des Hautes Energies)**
- **To get full participation to the CERN Doctoral Students programme of Moroccan Doctoral Students**
- **Selection procedure organized locally via an International committee. Selected candidate forwarded to CERN.**
- **Funds collected by the “Sharing Knowledge Foundation” (incl. private funds – “Fondation Carnot”) and transmitted to CERN.**
- **Grants for one year with possible extensions up to 3 years.**
- **Thesis linked to the ATLAS program. Supervision by senior ATLAS physicist.**
- **1<sup>st</sup> year funding granted by “Académie Hassan II des Sciences et Techniques (Maroc)”**
- **Deadlines:**
  - Preselection (on paper): 15<sup>th</sup> to 26<sup>th</sup> of February.
  - 3 candidates sending e-application to CERN
  - Interview on March 15<sup>th</sup> ( CNRST – Rabat (Morocco))
  - Inform CERN about the selected candidate by March 17<sup>th</sup>
  - Selection Committee of **20 April 2010**