

Reference No. : 2018 - 19/ SCH-DIR/079

27th November, 2018

Dear Parent,

SUB: CERN MASTERCLASS JUNE 2019 - SWITZERLAND

Genesis inculcates scientific values and nurtures a student's curiosity through various activities in School, be it a class discussion, project work, the investigative approach, competitions or educational trips to CERN & NASA to get a firsthand experience.

CERN is home to the World Wide Web, The Big Bang Experiment, the Higgs Boson and the largest particle accelerator in the world. It is the epicentre of cutting-edge research in the field of Particle Physics. To learn more about CERN, Particle Physics, Computer Science, Engineering and our place in the Universe, the School has organised an educational trip to Switzerland for the selected students of **Session 2019-2020 Grades 9th to 12th** - who have the curiosity, passion and interest for Science.

The week-long programme will cover a range of applications across STEM fields such as fundamental research, sustainable development, technology, engineering, medical applications and its ethics, and much more. The schedule combines visits to research labs and experiments, participation in simulations using the latest technologies, and interaction with leading scientists, academicians and industry experts.

Accompanied by our School Teacher, the students will be visiting other places of interest along with the CERN programme to ensure a blend of historical and geographical significance along with Science. Students will also visit Geneva and nearby areas. The sample schedule is attached for your reference.

We are confident that this trip will be an enriching experience for our students and encourage scientific temper. *(Above and beyond this activity the scholars may extend their stay by a day or two ,to visit/participate in other relevant programmes- details of which will be shared at a later date.)*

This tour is being held from **9th June to 15th June 2019***. The budget of the entire trip is **Rs. 1,85,000** (Rupees one lakh and eighty five thousand only) which includes:

- Air tickets
- Visa fees
- Insurance
- The CERN Programme
- Daily breakfast, lunch and dinner
- Accommodation on twin sharing basis
- Guided sightseeing tours, private coach package, tour guide etc.

*the extended dates may be before or after the scheduled Cern Programme dates, which will be confirmed closer to the travel dates.

Should you wish your ward to participate in this CERN Programme, then kindly send the consent form duly filled and signed and cheque made out to "Genesis Global School" to the respective class teacher latest by Wednesday, 5th December 2018.

Alternatively, you can also mail a scanned copy of the form to Mr. Ganesh Tiwari at deanactivities@genesisgs.edu.in

Best Wishes,

School Director

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CONSENT FORM

I, _____, parent
of _____ studying at Genesis Global School,
agree to send my ward Switzerland for the CERN Programme in June 2019.

- I hereby agree that the cancellation of the trip due to reasons beyond the control of the organiser/School may entail no refund or low return, depending on the situation (Also please refer to the cancellation policy mentioned here in).
- I understand that this trip will be supervised by members of the School faculty in collaboration with the service provider and that all reasonable safety precautions will be followed. I will not hold the School responsible for any circumstances beyond its control.
- Payment must be deposited in the School account latest by **10th December, 2018**.
- The School Account details are attached herewith should you wish to make an online transfer.
- The Parents will be responsible for dropping & picking their ward from the Airport, exact itinerary will be shared at a later date.
- Parents / guardians must carry their escort cards on these days.

Enclosed is the payment for Rs.1,85,000/-/- by Cheque No. _____ Dated _____
Name of Scholar _____ Grade _____
Name/Signature of parent _____ Date _____

Emergency Contact Details

Name _____
—
Number _____
—
Relationship with
student _____

School account details for online transfer

Beneficiary Name	KSC EDUCATIONAL SOCIETY	
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Bank name & Address	YES BANK LIMITED, CHANAKYAPURI, NEW DELHI 110021	Please mail the transaction Number, Name of the Student and Class to the accounts manager on manager.accts@genesisgs.edu.in when you transfer the money. Please note that without the transaction number and name of the student, it will be difficult to credit the same to the intended account Accounts Manager: Prakash Chandra Bhatt, Mobile No.-9711000497
Account No	000380200003042	
Account Type	Escrow/Current Account.	
IFS /NEFT /RTGS Code:	YESB0000003	
SWIFT Code:	YESBINBBDEL	

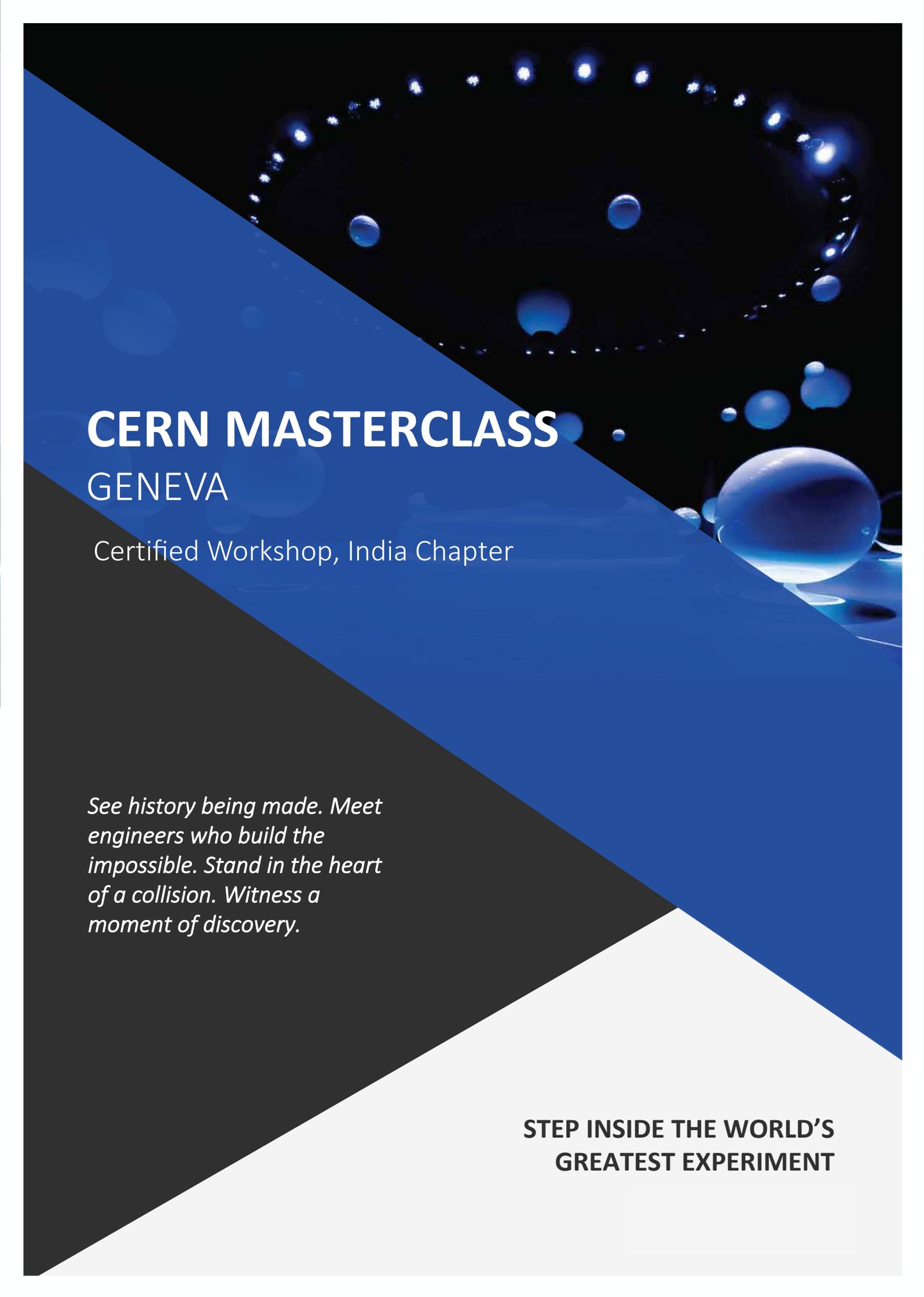
CANCELLATION POLICY

Should you wish to cancel your booking, you must notify us in writing.

Amount will be refunded subject to the Cancellation Fee which will be charged as per the detail herein:

Cancellation Timeline	Cancellation Fee
More than 30 days post consent given	Ticket cancellation charges as per actual
Less than 90 days before departure (3 months)	INR 10000/- (Ten Thousand)+ Ticket cancellation charges as per actual+ Visa Charges
Less than 60 days before departure (2 months)	INR 70000/-(Seventy Thousand)+ Ticket cancellation charges as per actual++ Visa Charges
less than 45 days before departure (1.5 months)	INR 100000/-(1 Lac/ Hundred Thousand+ Ticket cancellation charges as per actual++ Visa Charges

No cancellation/withdrawal/ refund requests will be entertained 14 days prior to the commencement date of the camp.



CERN MASTERCLASS

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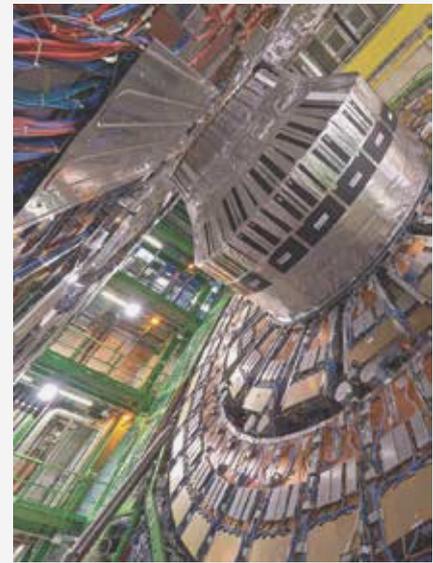
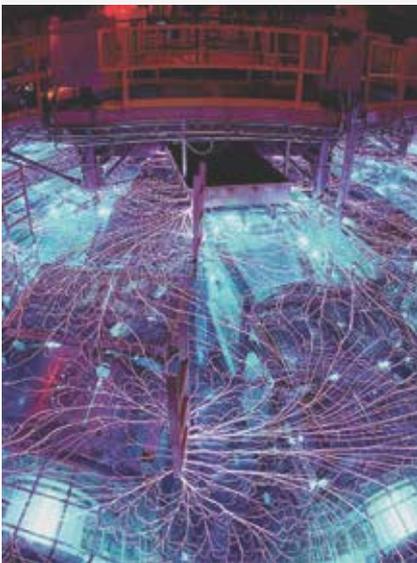
Certified Workshop, India Chapter

See history being made. Meet engineers who build the impossible. Stand in the heart of a collision. Witness a moment of discovery.

**STEP INSIDE THE WORLD'S
GREATEST EXPERIMENT**

ABOUT CERN

Come on a journey inside the largest scientific experiment ever constructed. Buried deep under the border between Switzerland and France, CERN's Large Hadron Collider is the work of 10,000 men and women from across the globe, united in their quest to uncover the fundamental building blocks of our universe.



Inventor of the Touchscreen

World's single largest machine

Birthplace of the World Wide Web

Home to the Big Bang Experiment

600 million collisions per second

Temperatures hotter than the sun

ABOUT THE WORKSHOP

Spend a week with leading scientists and explore the world's biggest, most complex experiments. Visit high-tech installations and see the scale of engineering and technology required to answer some of our biggest questions. Interact with international experts and learn about what's going at the forefront of innovation.

'God' particle, big bangs, time travels, mini black holes and much more

SAMPLE DAILY SCHEDULE

VISITS

Visit engineering marvels like the Atlas and the CMS experiments 100 meters beneath the ground, the Antimatter Factory, the CERN Computer Center and the AMS Experiment, a particle detector in space.

- 8:00 am Breakfast at the hotel
- 8:45 am Leave for CERN
- 9:00 am Interaction with an expert
- 10:30 am Visit to an experiment site
- 12:00 pm Lunch at CERN restaurant
- 1:30 pm Hands-on workshop
- 4:30 pm Review
- 6:00 pm Explore Geneva
- 9:00 pm Dinner

WORKSHOPS

Participate in hands-on activities where you build your own particle detector, learn data analysis and find your own God Particle.

EXPLORE GENEVA

Soak in the old-world charm of Old Town, enjoy a boat ride on the Geneva Lake, visit the headquarters of the United Nations and much more.

EXPERTS

Interact with experts in Cosmology, Dark matter, Astrophysics, Medical Applications, Computing, Design and Engineering.

Albert De Roeck

Head of CMS Experiment



Peter Jenni

Founding Father of ATLAS Experiment



Sir John Ellis

Expert on Supersymmetry



Michael Doser

Expert on Antimatter



Students also participate in the Great Discover Geneva Treasure Hunt: an exciting half-day activity curated by the scientists at CERN to help them explore the city by solving interesting clues.

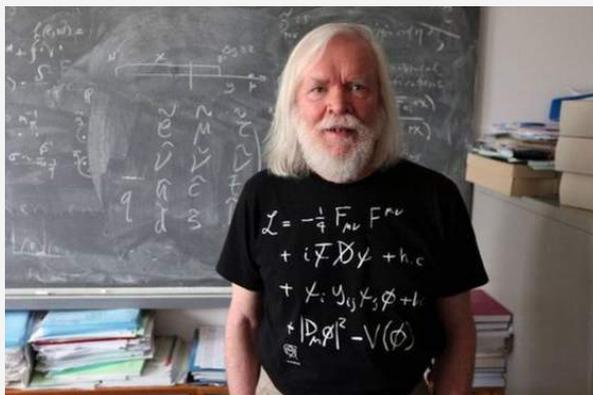
HIGHLIGHTS



Create your own particle detector and catch cosmic rays coming from outer space



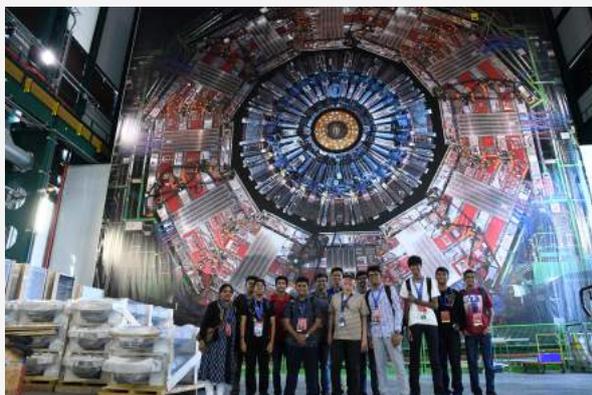
Visit the world's only antimatter factory to study this mysterious substance



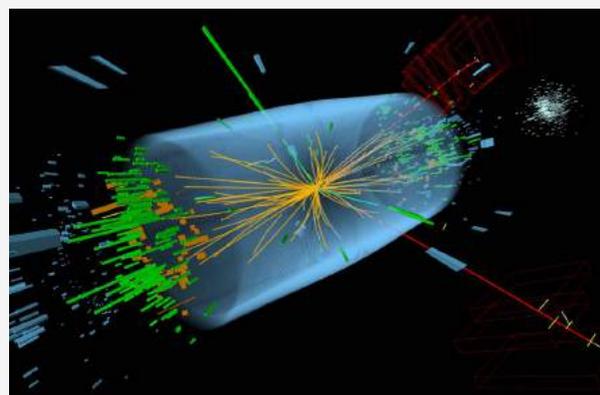
Learn about super symmetry and extra dimensions with Sir John Ellis



Watch the Earth spin from outer space at the AMS Control Center



Visit giant detectors 100 meters beneath the ground



Learn about the discovery of the Higgs Boson with Prof. Albert De Roeck



Students learn about superconducting magnets at SM18



Students from The Heritage School and DPS South visit the AMS Experiment



Students from India and Appelby College (Canada) attend an art-science workshop



Student from CHIREC Int'l School visit the GEM Detector Lab with Dr. Archana Sharma



Students from Woodstock School visit the birthplace of the World Wide Web

“The most complex engineering to study the most fundamental physics, the biggest machines to collide the smallest particles – the juxtaposition is startling!”

Atharva Shukla
Student, The Doon School

“The trip showed me diverse fields of expertise like Physics, Chemistry, Engineering, Data Computing and many more.”

Anshul Rao
Student, DPS Bangalore South

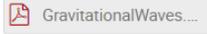
“The visit was intellectually challenging and also facilitated the mingling of students from different cultures.”

Samta Jain,
Teacher, The Shri Ram School

“The best part about the lecturers was that they could explain complicated ideas in a very simple manner.”

Anju Jain
Physics teacher, G.D. Goenka World School

CERN MASTERCLASS - Sample Schedule

	12 Jun 2018, 08:00 → 16 Jun 2018, 18:00	Europe/Zurich
	CERN	
Description	Organised in collaboration with Life Lab Education and Research Foundation	
MONDAY, 12 JUNE 		
09:00 → 09:15	Arrival and Welcome Speaker: Archana Sharma (CERN)	🕒 15m 📍 CERN Reception B33
09:30 → 10:30	Introduction to CERN Speaker: Mick Storr (University of Birmingham (GB))	🕒 1h 📍 40-S2-A01 - Salle Anderson
11:00 → 12:30	Visit Globe	🕒 1h 30m
12:30 → 14:00	lunch	🕒 1h 30m
14:00 → 17:00	Particle Detection	🕒 3h
TUESDAY, 13 JUNE 		
09:00 → 10:30	Introduction to CMS Speaker: Piotr Traczyk (Uni Torino & INFN (IT))	🕒 1h 30m 📍 40-S2-A01 - Salle Anderson
11:00 → 12:30	Gravitational Waves Speaker: Jonathan R. Ellis (University of London (GB))  	🕒 1h 30m 📍 40-S2-A01 - Salle Anderson
12:30 → 14:00	Lunch	🕒 1h 30m
14:00 → 15:00	Visit ATLAS	🕒 1h
15:00 → 16:30	Visit Microcosm	🕒 1h 30m
WEDNESDAY, 14 JUNE 		
09:00 → 10:30	CMS Physics Speaker: Albert De Roeck (CERN)	🕒 1h 30m 📍 40-S2-A01 - Salle Anderson
11:00 → 12:30	Introduction to Accelerators Speaker: Dr. Simone Gilardoni (CERN)	🕒 1h 30m 📍 40-S2-A01 - Salle Anderson
12:30 → 14:00	Lunch	🕒 1h 30m
14:00 → 15:00	Visit LEIR	🕒 1h
15:00 → 16:00	Visit SC	🕒 1h
16:00 → 17:00	Visit SM-18	🕒 1h

THURSDAY, 15 JUNE



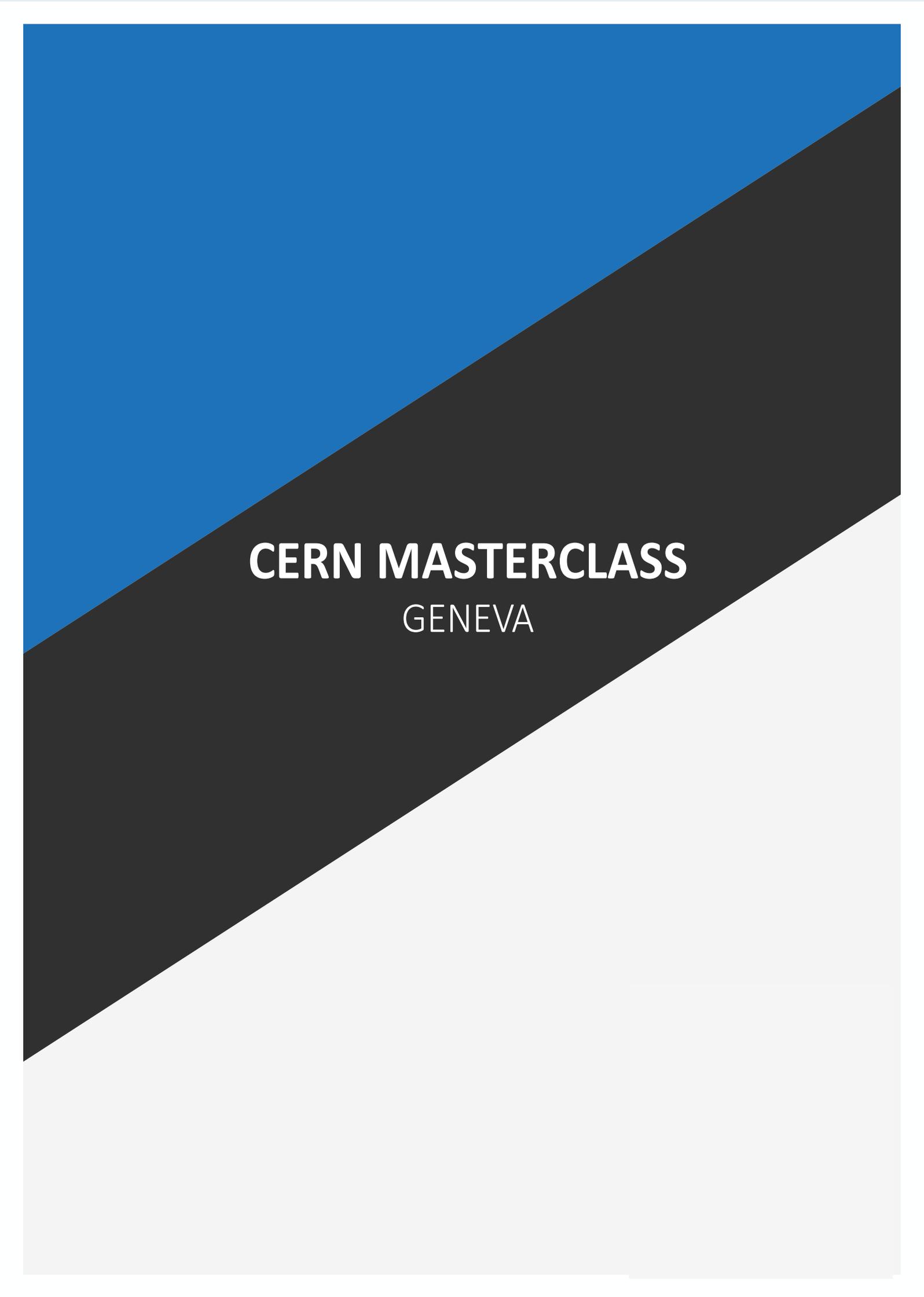
09:00	→ 10:00	India@CERN Speaker: Archana Sharma (CERN)	🕒 1h 📍 40-S2-A01 - Salle Anderson
11:00	→ 12:30	Cosmology Speaker: Michael Doser (CERN)	🕒 1h 30m 📍 40-S2-A01 - Salle Anderson
12:30	→ 14:00	Lunch	🕒 1h 30m
14:00	→ 17:00	Treasure Hunt	🕒 3h

FRIDAY, 16 JUNE



09:00	→ 10:00	Visit AD	🕒 1h
10:00	→ 11:00	Visit Computer Centre	🕒 1h
11:30	→ 12:00	Programme review and close	🕒 30m
12:00	→ 13:00	Lunch	🕒 1h
13:00	→ 17:00	UN visit	🕒 4h

To learn more about the CERN Masterclass [click here](#)

The poster features a diagonal split between a blue upper-left section and a dark grey lower-right section. The text is centered in the dark grey area.

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