

URS WIEDEMANN (CERN DEPARTMENT OF THEORETICAL PHYSICS), HYUNG DO KIM (KPS, SEOUL NATIONAL UNIVERSITY)

### Main activities

- CERN Fellow: Hire one new fellow every year (2-year position changed to 3 year starting from this year announcement)
- Visiting Graduate Student: 1 or 2 students for 3~9 months
- CERN TH Institute: 1 or 2 times per year
- CERN-Korea Summer Student Program (new)

### $Present\ Team \qquad \hbox{ C: Cosmo, H: Hadron, P: Particle, S: String}$

Hyung Do Kim	SNU	Steering/Chair	P
Nakwoo Kim	Kyung Hee	Steering	S
Ki-Young Choi	SKKU	Steering	С
Seung J. Lee	Korea	Steering	P
Seok Kim	SNU	Steering	S
Seongtae Cho	Kangwon	Steering	Н
Minho Son	KAIST	Steering/Ex-officio	P
Deog Ki Hong	PNU		P
Jinn Ouk Gong	Ewha Women's		С
Sangmin Lee	SNU		S
Hyun Min Lee	Chung-Ang		P
Myeonghun Park	Seoul Tech		P
Seong Chan Park	Yonsei		P
Seung-Joo Lee	IBS (CTPU)		S
Hang Bae Kim	Hanyang		С
Seong Youl Choi	Chonbuk		P
Sungjay Lee	KIAS		S
Chunglee Kim	Ewha Women's		С
Jongchul Park	Chungnam National Univ.		C/P
Jaewon Song	KAIST		S
Sunghoon Jung	SNU		C/P

# Annual Budget (2024)

1 CHF = 1490 KRW

530 M KRW ~ 356 k CHF

Program	Budget	
CERN Fellows	320 M KRW	
Graduate Students	60 M KRW	
CERN CKC Workshop	100 M KRW	
Summer School	0 KRW	
Other activities/Overhead	20/30 M KRW	
Total	530 M KRW	

## Annual Budget (2024')

1 CHF = 1490 KRW

530 M KRW ~ 356 k CHF

Program	Budget	
CERN Fellows	320 M KRW	
Graduate Students	30 M KRW	
CERN CKC Workshop	70 M KRW	
Summer School	60 M KRW	
Other activities/Overhead	20/30 M KRW	
Total	530 M KRW	

## **CERN fellows alumni**

Name	Period	Position	Current Position
Hyun Min Lee	2010. 1 ~ 2012. 5	Fellow	Chung-Ang (Faculty)
Chul Kim	2010. 2 ~ 2011. 1	Fellow	Seoultech (Faculty)
Jin Ouk Gong	2010.10 ~ 2012. 9	Fellow	Ewha Womans U (Faculty)
Myeonghun Park	2011.10 ~ 2013.9	Fellow	Seoultech (Faculty)
Chan Beom Park	2012.10 ~ 2014. 9	Fellow	Chonnam Nat'l U (Faculty)
Ian-Woo Kim	2013. 9 ~ 2015. 8	Fellow	UpHere, Inc. (Founder)
Hye-Sung Lee	2014. 8 ~ 2015. 7	Fellow	KAIST (Faculty)
Ji-Haeng Huh	2015.10~ 2017. 9	Fellow	_
Hee Seok Chung	2016.04 ~ 2017. 8	Fellow	Humbolt Fellow (Munich)
Doojin Kim	2016.09 ~ 2018. 8	Fellow	Arizona U (Postdoc)
Seung-Joo Lee	2017.09 ~ 2020. 4	Fellow	IBS (Faculty)
Yu-Seon Jeong	2018.09 ~ 2020. 9	Fellow	Chung-Ang U (Researcher)
Sohyun Park	2019.09 ~ 2022. 8	Fellow	_
Jinsu Kim	2020.09 ~ 2022.8	Fellow	Tongji U (Faculty)
Gongjun Choi	2021.09 ~ 2023.8	Fellow	Minnesota U (Postdoc)
Saebyeok Jeong	2022.09 ~ 2025.08	Fellow	CERN
Jihwan Oh	2023.09 ~ 2025.08	Fellow	CERN
Sung Mook Lee	2024.09 ~ 2027.08	Fellow	KAIST

## Visiting students alumni

Name	Period	<b>Current Position</b>	
Jihun Kim	2010. 9 ~ 2011. 2	UpHere, Inc. (Researcher)	
Doyoun Kim	2010.9 ~ 2011.2	IBS-CTPU (Research fellow)	
Kwangwoo Kim	2011. 9 ~ 2012. 2	Jlab (Senior researcher)	
Imtak Jeon	2011. 9 ~ 2012. 2	APCTP (Junior Leader)	
Sung Hak Im	2012.10 ~ 2013. 2	KEK (Research fellow)	
Do Young Mo	2014. 2 ~ 2014. 8	UpHere, Inc. (Researcher)	
Dong Woo Kang	2015.4 ~ 2015.10	KIAS (Postdoc)	
Dongwook Ghim	2017.04 ~ 2017.09	KIAS (Postdoc)	
Youngbin Yun	2017.04 ~ 2017.09	FN pricing (Employee)	
Hyungjoo Kim	2018.03 ~ 2017.08	APCTP (Postdoc)	

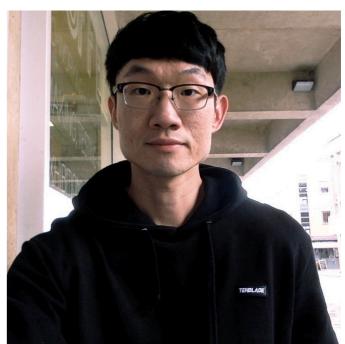
## Visiting students alumni

Name	Period	<b>Current Position</b>	
Se-Jin Kim	2019. 2 ~ 2019. 8	GIST (Postdoc)	
Yein Lee	2019. 2 ~ 2019. 8	Kyung Hee U. (Student)	
Soo-Min Choi	2020. 2 ~ 2020. 5	Munich Tech. U. (Postdoc)	
Yongsoo Cho	2021.6 ~ 2021.11	Weizmann Institute (Postdoc)	
Ui Min	2021.6 ~ 2021.11	KAIST (Student)	
Sung Mook Lee	2022.7 ~ 2023.3	Yonsei U. (Student)	
Adriana Menkara	2023.7 ~ 2023.12	Joong Ang U. (Student)	
Dong Yeon Cheong	2023.7 ~ 2023.12	Yonsei U. (Student)	
Jiheon Lee	2024. 8 ~ 2025. 1	KAIST (Student)	

## Activities

- 2 CERN Fellows
  - Saebyeok Jeong (22'~25')
  - Jihwan Oh (23'~25')
- We host CERN Theory Institute
  - Theory Institute: Crossroads between Theory and Phenomenology, 2024. 6. 10 ~ 6. 28, CERN
- Outreach Program for undergraduate students
  - 10 students attend the summer camp/school for two weeks (CERN workshop in the morning and activities in the afternoon including lectures and visiting sites), 2024. 7. 1 ~ 7. 12

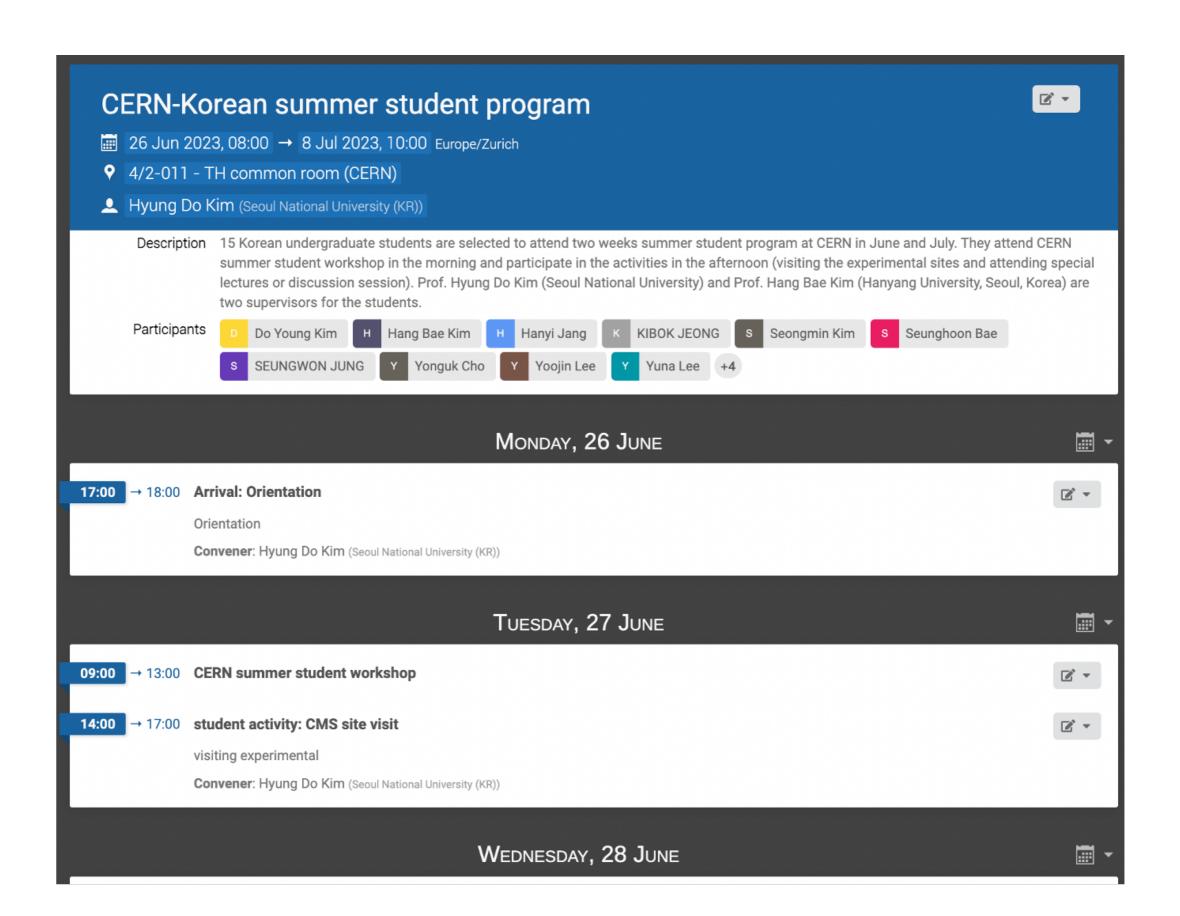




# Publication ('23. 03 ~ '24.02)

7 in total
(5 by Fellows,
2 by visiting
graduate
students)

	Title	Journal	ISSN	уууу dd	role
1	Dynamically induced	Physical	2470-	202302	First(Choi)
	Topological Inflation	Review D	0010		
2	Primordial black	Physical	2470-	202202	Cor(Kim)
	holes and	Review D	0010	202302	
3	Axion quality problem	Physical	2470-	202307	First(DYJeong,
3	and nonminimal	Review D	0010		SMLee)
4	Ultraviolet sensitivity	JCAP	1475-	202308	First(SMLee)
	in Higgs-Starobinsky		7516		
5	The medium-modified	JHEP	1126-	202301	(Park)
	g to ccbar splitting		6708		
6	Z2-odd Polonyi field	ILIED	1126-	202307	First(Choi)
	in twin Higgs model	JHEP	6708		
7	Implications of	ILLED	1126-	202200	Firet(Chei\
	protecting the QCD	JHEP	6708	202309	First(Choi)



### Crossroads between Theory and Phenomenology

Jun 10 – 28, 2024 CERN

Europe/Zurich timezone

Enter your search term

Q

#### Overview

Application form

Participant List

Code of Conduct

Practical information

- Directions to and inside CERN
- Wi-fi Connection
- Health insurance, VISA
- Child Care
- ... CERN map
- Accommodation

#### TH workshop secretariat

thworkshops.secretariat...

A three-week CERN-CKC TH Institute on BSM physics with a light schedule intended to maximally facilitate scientific interaction and collaboration.

The BSM programme will broadly, but not strictly, be thematically organised by topic; the first week linking to cosmology, the second to model building and high energy, and the final week focussing on the interface with formal phenomenology.



Starts Jun 10, 2024, 9:00 AM Ends Jun 28, 2024, 7:00 PM

Europe/Zurich



Gian Giudice

Gilly Elor Hyung Do Kim

Matthew Philip Mccullough

Minho SON

Sungwoo Hong

Tim Cohen



CERN 4/3-006 - TH Conference Room Go to map



#### Registration

Registration for this event is currently open.

Register now

#### **CERN-Korean summer student program**

Jul 1-13, 2024 **CERN** 

Europe/Zurich timezone

Enter your search term

Q

Overview

Registration

Participant List

Photo

10 Korean undergraduate students are selected to attend two weeks summer student program at CERN in July. They attend CERN summer student workshop in the morning and participate in the activities in the afternoon (visiting the experimental sites and attending special lectures or discussion session).

Prof. Hyung Do Kim (Seoul National University) and Junghwan Goh (Kyung Hee University, CMS experiment), Beomkyu Kim (Sungkyunkwan University, ALICE experiment) and Kang Young Lee (Gyeongsang National University, SND@LHC experiment) are four supervisors for the students.



Starts Jul 1, 2024, 8:00 AM Ends Jul 13, 2024, 10:00 AM Europe/Zurich



**CERN** 



Hyung Do Kim



Register now >