### Research at CTPU

## The 1st CAPP-CTPU-CUP collaboration meeting

Chang, Sanghyeon

**CTPU** 

August 11, 2018

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### We are

Center for Theoretical Physics of Universe
Particle Physics Theory and Cosmology Group
CTPU-PTC

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## Members

- Director
- 4 faculties
- 17 Postdocs
- 3 Admin staffs
- 1 technician

# Faculty



Kiwoon Choi Director

Physics Beyond the Standard Model, Supersymmetry, Particle Cosmology, Axion

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#### Sanghyeon Chang

Physics Beyond the Standard Model, Particle Cosmology, Axion, Extra-dimensions



#### Kenji Kadota

Particle Cosmology, Early Universe, Particle Phenomenology, Supersymmetry, Cosmology



#### Kyu Jung Bae

Supersymmetry, Early Universe, Axion, Collider Physics



Chang Sub Shin

Particle Cosmology, Early Universe. Baryo/Leptogenesis Our group is interested in broad research subjects in theoretical particle physics as well as the related cosmological and astrophysical phenomena.

One of the subjects we are emphasizing in these days is the physics of dark sector, e.g. dark matter, dark gauge interactions, and very weakly interacting light particles such as axions or axionlike particles.

Our research activities cover also model building for new physics phenomena, study of collider signals of new physics models, physics of CMB and gravitational waves related to early universe inflation and/or phase transitions.

## Postdocs and Technician



Yang Hwan Ahn Physics Beyond the Standard Model



**Andrew Spray** Physics Beyond the Standard Model



Dovoun Kim Collider Physics



Zhuoni Qian Collider Physics



Ayuki Kamada Particle Cosmology



Menchao Zhang Physics Beyond the Standard Model



Rvusuke Jinno Particle Cosmology



Jeff Kost BSM. Cosmology



Thomas Flacke Physics Beyond the Standard Model



Patrick deNiverville Neutrino, BSM



Sushant Raut Neutrino, BSM



Takumi Kuwahara BSM, Supersymmetry



Tae Hyun Jung Physics Beyond the Standard Model



Gansukh Tumurtushaa Cosmology



Eibun Senaha Physics Beyond the Standard Model



Wonyoung Cho Computer simulation



Physics Beyond the



Chan Beom Park Collider Physics



Kohei Kamada Cosmology, Early







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Experimental group is like a team, while theoretical group is a collection of independent researchers.

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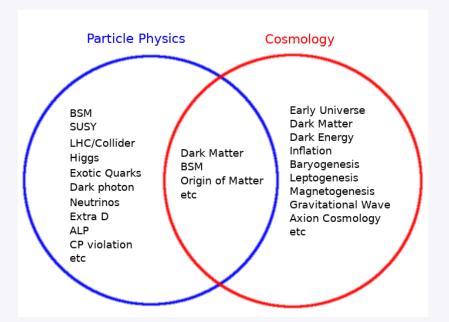
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There are two divisions in CTPU research, though it is not concrete as experimental groups.

Particle Physics and Cosmology.

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Each division has around 10 members.

Some of them participate in both division.

IMembers can work with CTPU member and/or outside collaborators or alone.

# How to find a theorist you need?

Each division is managed by two senior postdocs.

Particle Physics : Thomas Flacke

Cosmology : Ayuki Kamada

You can contact one of Faculty or senior postdocs.