

# Snowmass CEPC: EF09 & EF10 Status

Hao Zhang & Xin Shi

On behalf of EF09 & EF10 Group

# Outline

- 1、各组联络人；
- 2、近期参会讨论中得到的Key-Msg & Interesting Points;
- 3、各组相关的Topics: 内容、参与人、研究现状-成熟度、预期结论及CEPC的比较优势、希望得到的支持和合作。

# EF09 & EF10 Contacts

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- EF10 – Xin Shi <shixin@ihep.ac.cn>

# Recent Meeting

<https://indico.ihep.ac.cn/event/12015/>

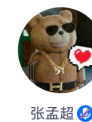
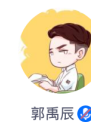
## Snowmass 2011 EF09 & EF10 Joint Kick-off Meeting

Monday, 22 June 2020 from 20:00 to 21:00 (Asia/Shanghai)

**Description** <https://meeting.tencent.com/p/5249836064>

### Monday, 22 June 2020

- 20:00 - 20:10 **Introduction to EF09 & EF10 10'**  
Speakers: 吴 ZHANG (Institute of High Energy Physics, Chinese Academy of Sciences), Xin Shi (IHEP)  
Material: [Slides](#)
- 20:10 - 20:30 **EF09.1 - Loop effect of new particles in HZ production 20'**  
Speaker: Zhao LI Zhao (IHEP-CAS)  
Material: [Slides](#)
- 20:30 - 20:50 **EF10.1 - Dark Matter: mono-V/H/Scalar 20'**  
Speaker: 数 李 (李政道研究所/上海交通大学)  
Material: [ATLAS Mono-H](#) [ATLAS Mono-V](#) [Dark Higgs Model](#)



# Key messages - EF09: BSM: More General Explorations

- Key words: “beyond”, “general”
- Where is new physics?
- Top-down new Physics
- Adjacent New Physics
- Accident?
- Face to important principles and mechanisms, but (probably) not specific models.

# EF10: BSM Dark Matter at Colliders

- By definition, it is part of BSM
- WIMP dark matter.
- Non-WIMP dark matter:
  - Axion, ALP, PBH, ADM, ...
  - “应检尽检” ！



# Topics

- EF09.1: Loop effect of new particles in HZ production (Zhao Li)
- EF10.1: Dark Matter: Mono-V/H/Scalar (Shu Li)
- EF10.2: Dark Matter: Dijet + Missing Energy (Zhao Li)
- EF10.3: Dark Matter: Top + jet + missing Energy (Peiwen Wu)

# People : EF09 & EF10

EF09

EF10

