

PITT PACCC Workshop

Invisible Higgs at the LHC

August 25, 2016

Organizing committee



Tao Han
Director, PITT PACC

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article physics
sburgh



Tae Min Hong, Member



Brian Batell, Member

Some general activities of PITT PACCC include:

- Organizing a series of joint **seminars** on topics of common interest.
- Organizing topical, **fast-responding workshops on hot physics topics** & other conf.
- Hosting an annual PITT PACCC Distinguished **Lectureship**.
- Hosting **short term and long term visitors**.
 - Providing support for a senior **postdoctoral position**, to be called the Samuel P. Langley PITT PACCC Fellow.
 - Allocating A&S graduate **student fellowship support**, when available.
 - **Supporting junior members** to make presentations at professional meetings.

Invisible Higgs at the LHC

Visitors

- Guoli Wang, Harbin Institute of Technology (November 2011 - May **2012**)
- Ralph (Max) Niedermaier (September 2011 - April **2012**)
- Kaoru Hagiwara, KEK (January 14 -19, **2012**)
- Choong Sun Kim, Yon Sei University (April - May, **2012**)
- S.K. Kang, Seoul National Univ. of Technology (February 2013 - January **2014**)
- Nick Setzer, University of Granada (March - April **2013**)
- Kaoru Hagiwara, KEK (January 11-21, 2014 and March 3-14, **2014**)
- Seong Youl Choi, Chonbuk National Univ. (February 2014 - January **2015**)
- Ushoshi Maitra, Harish-Chandra Research Institute (October **2014**)
- Tanumoy Mandal, Harish-Chandra Research Institute (October **2014**)
- Chong Sheng Li, Peking University (November **2014**)
- Kaoru Hagiwara, KEK (November 2014 & March **2015**)
- Sin Kyu Kang, Seoul National Univ. of Science & Technology (February **2015**)
- Choon Sun Kim, Yonsei University, Seoul, Korea (December 2014 - March **2015**)
- Shoushan Bao, ShanDong University (August 2015 - August **2016**)
- Yongcheng Wu, TsingHua Univ. (August 2015 - August **2016**)
- Han Yuan, Harbin Institute of Tech (November 2015 - October **2016**)

Free membership (get listed on the webpage & get email announcements)

Purpose

- Engage theorists-experimentalists in topics they worked on

Mode of conduct

- The talks are meant to stimulate discussion
 - Speakers: **stimulate, provoke**
 - Audience: **ask questions**
- After you leave Pittsburgh, email each other!

Agenda

- **Experimental** Overview of invisible Higgs Madsen
- **Experimental** Details on invisible Higgs via VBF Carlson
Discussion overview + Coffee break
- **Theory** Formalism + motivation Plehn
- **Theory** VBF neutralino + EW DM Berlin
Discussion overview + **Group photo (go outside)** + Coffee break
- **Theory** Invisible Higgs in VBF + ZH Goncalves
- **Theory** Invisible Higgs DM portals Ghosh
Discussion overview + Coffee break