

LHC Dark Matter Working Group:
Next-generation spin-0 dark matter models

List of contributions

Contents

- **Tomohiro Abe**, Inputs on the direct detection part of the white paper.
- **Andreas Albert**, Design of the 2HDM+a parameter scans; Kinematic distributions and cross-sections for mono-Z(lep); Relic density study.
- **Christopher R. Anelli**, Design of 2HDM+a parameter scans, kinematic distributions for mono-Z(lep), 2HDM+a cross-sections and sensitivity estimates for mono-Z(lep).
- **Nicole F. Bell**, Work on direct detection constraints, relic density, 2HDM+scalar model.
- **J. Katharina Behr**, Help with coordination of ATLAS studies; re-interpretation of $A/H \rightarrow t\bar{t}$ search.
- **Liron Barak**, Final reviewer of the white paper.
- **Martin Bauer**, Theory section.
- **Antonio Boveia**, Inputs as DMWG organizer for this effort.
- **Oleg Brandt**, Design of 2HDM+a parameter scans, supervision of L. Henkelmann.
- **Giorgio Busoni**, Work on direct detection constraints, relic density, 2HDM+scalar model.
- **Linda M. Carpenter**, Indirect Detection annihilation signatures of 2HDM.
- **Yu-Heng Chen**, Re-interpretation of $A/H \rightarrow t\bar{t}$ search; modification of UFO to include signal-background interference.
- **Caterina Doglioni**, Editor, organization of material, inputs on experimental part of the document.
- **Alison Elliot**, Kinematic distributions for mono-Z(lep).
- **Motoko Fujiwara**, Comments on the direct detection part of the white paper.
- **Marie-Helene Genest**, Final reviewer of the white paper.
- **Raffaele Gerosa**, Final reviewer of the white paper.
- **Johanna Gramling**, 4-top studies (cross-section, model implementation, interference with SM checks).
- **Stefania Gori**, Final reviewer of the white paper.

- **Alexander Grohsjean**, Final reviewer of the white paper.
- **Giuliano Gustavino**, Inputs on experimental monojet constraints.
- **Kristian Hahn**, Inputs as DMWG organizer for this effort.
- **Ulrich Haisch**, Main editor, organization of material, inputs on both theory and experimental part of the document.
- **Lars Henkelmann**, Design of 2HDM+a parameter scans, kinematic distributions for mono-Higgs, 2HDM+a cross-sections and sensitivity estimates for mono-Higgs.
- **Junji Hisano**, Comments on the direct detection part of the white paper.
- **Anders Huitfeldt**, Sensitivity projections for the 2HDM+scalar model, simplified models to 2HDM+scalar model re-scaling studies.
- **Valerio Ippolito**, Inputs on experimental monojet constraints.
- **Felix Kahlhoefer**, Final reviewer of the white paper. Inputs on treatment of resonances, indirect detection, relic density.
- **Greg Landsberg**, Contributions to $bb + E_T^{\text{miss}}$ part of the paper and Fig. 43.
- **Fabio Maltoni**, Review of document, addition of relevant references.
- **Benedikt Maier**, Design of 2HDM+a parameter scans, CMS studies on mono-Higgs.
- **Kentarou Mawatari**, Review of document, addition of relevant references.
- **Margarete Muehlleitner**, Final reviewer of the white paper.
- **Jose M. No**, Stability study of the 2HDM+a, towards definition of benchmarks for mono-h and mono-Z analyses.
- **Priscilla Pani**, 4-top studies (cross-section, model implementation, interference with SM checks). Wt+MEt signature studies.
- **Giacomo Polesello**, Rescaling of DMSimp to 2HDM+a, heavy flavor signature studies.
- **Darren D. Price**, Final reviewer of the white paper.
- **Tania Robens**, Input on inert doublet model. Final reviewer of the white paper.
- **Giulia Rovelli**, Rescaling of DMSimp to 2HDM+a, heavy flavor signature studies.
- **Isaac W. Sanderson**, Work on direct detection constraints, relic density, 2HDM+scalar model.
- **Rui Santos**, Final reviewer of the white paper.

- **Stanislava Sevova**, CMS studies on heavy flavor signatures.
- **David Sperka**, Final reviewer of the white paper.
- **Kevin Sung**, Inputs on heavy flavor signatures.
- **Tim M. P. Tait**, Inputs as DMWG organizer for this effort.
- **Koji Terashi**, organized Mono-Z meetings between ATLAS and CMS, studies of Mono-V hadronic channel.
- **Francesca C. Ungaro**, Help with coordination of ATLAS heavy flavour signatures, MC simulations of the 2HDM+scalar model, validation of the results.
- **Eleni Vryonidou**, Review of document, addition of relevant references.
- **Shin-Shan Yu**, Design of 2HDM+a parameter scans, CMS studies on mono-Higgs.