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# Dark Matter Centre 2020 Annual Workshop

Wei Su

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**2013-2018: Chinese Academy of Sciences  
& University of Arizona**

**2018-present: Prof. Anthony G Williams & Martin White**

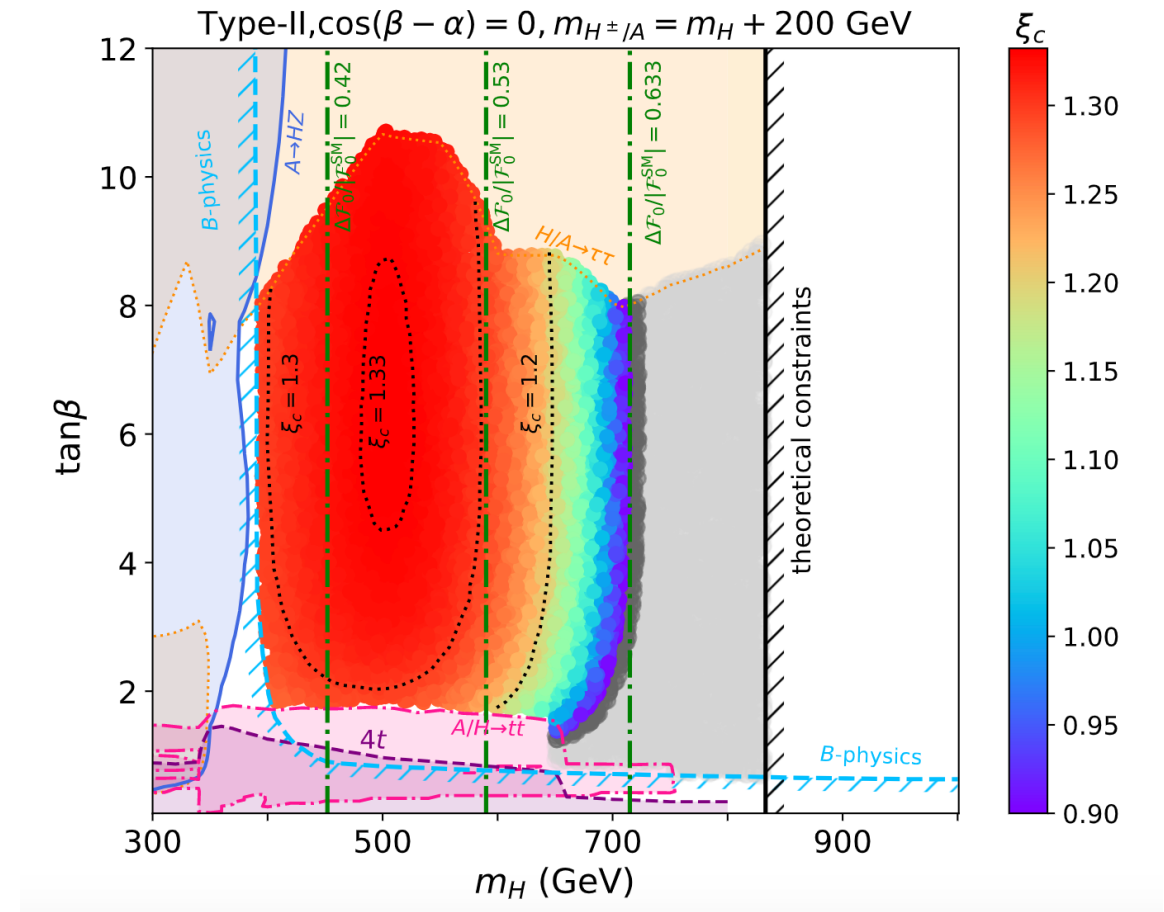


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# Higgs Physics

- Heavy Higgs search at LHC
- Higgs precision at lepton collider
- B-physics
- Theoretical Constraints
- Electroweak Phase Transition

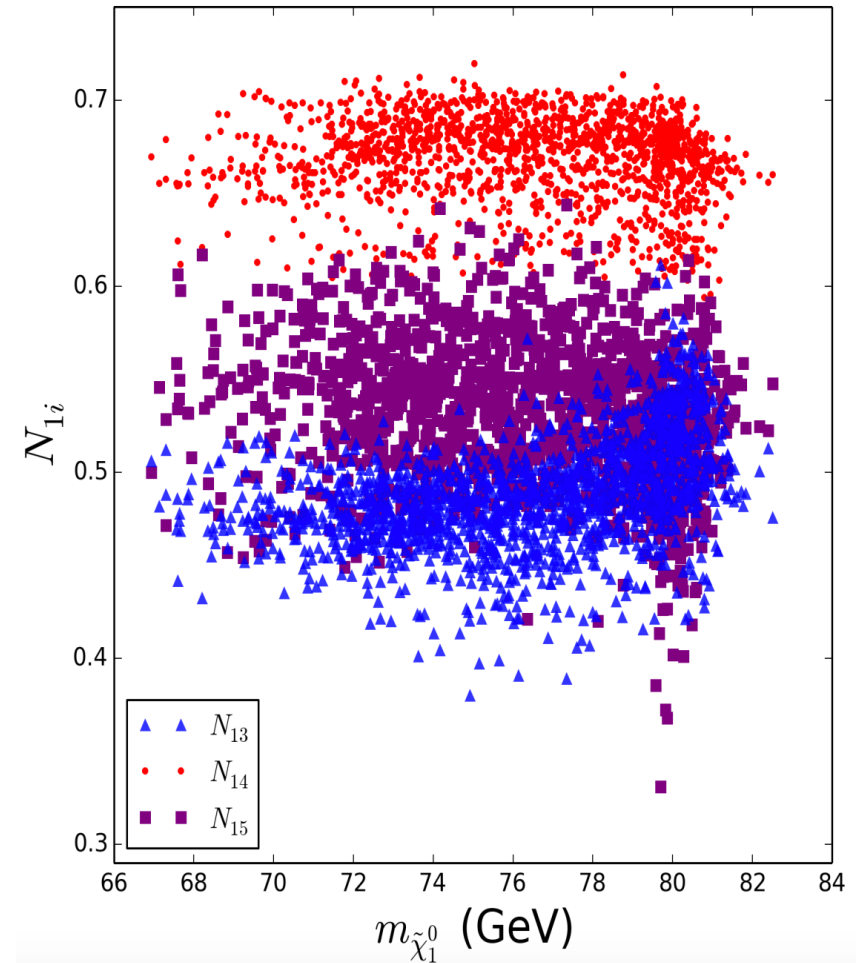
[2011.04540 WS](#), A Williams, M Zhang



# Dark Matter (2015-2016)

## WIMP at SUSY

- [1511.05386](#)  
light dark matter scenario at MSSM
- [1606.04416](#)  
Higgsino dominated dark matter scenario at NMSSM
- [1609.00204](#)  
natural NMSSM with LUX-2016



# Dark Matter (recently)

- Multi-component WIMP, to explain Xenon-1T
- Distinguishing DM operators at LHC with machine learning



Thanks!

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INTERNATIONAL PARTNER ORGANISATIONS:

