

## Dark Matter and Gravitational Waves in the 2HDM+a

*Friday, 29 September 2023 10:05 (20 minutes)*

We illustrate a comprehensive study of the 2HDM+a coupled with Dark Matter, including constraints from collider and dedicated Dark Matter searches. We also illustrate the outcome analysis of the cosmic phase transitions and the gravitational wave spectrum that are implied by the model and show the prospects for observing the signal of such gravitational waves in near future experiments such as LISA, BBO or DECIGO.

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