

# Fundamental physics in the cosmos: The early, the large and the dark Universe



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## The toric $SO(10)$ F-theory landscape (part II)

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We present a full classification of  $SO(10)$  theories that can be represented as a toric hypersurface. These models generically exhibit additional Abelian, non-Abelian and discrete symmetries that can be used for phenomenological applications. We compute all charges and 6D multiplicities as well as anomaly coefficients base independently. These theories have a rich structure, such as non-Kodaira Fibers in codimension three as well as connections via higgsings and superconformal matter transitions.

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