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## Multi-phase criticality

*Thursday 1 December 2022 09:40 (40 minutes)*

I present a scale-invariant Higgs-dilaton model of dynamical symmetry breaking and dark matter which, in the multi-phase criticality regime, generates a huge hierarchy between the electroweak and new physics scales in a technically natural way. The hierarchy follows from tiny scalar couplings required by the multi-phase criticality. I discuss dark matter freeze-out and freeze-in processes as well as dilaton physics in this scenario.

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