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Adventures in the Continuum: Model Building for Hidden Sectors

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We present recent work on hidden sector model building based on particles with a continuous mass spectrum. In the past, these have been known as models with warped extra dimension, near-conformal field theories, hidden valleys, and unparticles. While these ideas saw a golden age as speculations for electroweak physics ahead of the LHC, they may find a new life in hidden sector physics. We focus on continuum mediators and dark matter, focusing on recent work and open questions.

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