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Twists and Turns through the Landscape of Little String Theories

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Little String Theories(LSTs) are a class of 6D supersymmetric theories that sit right between SCFTs and SUGRA theories: While LSTs admit global symmetries, they also admit a characteristic scale. This scale can be mixed with another circle radius, relating different T-dual 6D theories in 5D. LSTs and their network of T-duals however remained fairly unexplored until recently. In this talk I will review progress in charting the landscape of 6D LSTs and their network of (twisted) T-duals by exploiting recent progress in generalized symmetries and geometric engineering in M/F-theory. This talk is based on published and ongoing works with Hamza Ahmed, Florent Baume, Andreas Braun, Michele Del Zotto, Muyang Liu, Fabian Ruehle, and Benjamin Song.

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