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T-duality building blocks in stringy corrections

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T-duality has been shown to constrain the higher derivative corrections of string theory. We revisit the problem of understanding the T-duality constraints imposed on the alpha prime corrections using the language of a torsionful connection to construct $O(d,d)$ invariant building blocks for general d -dimensional torus compactifications. This also suggests that there are in fact some hidden geometrical structures in string theory and use this to revisit the heterotic and bosonic ten-dimensional string action at order alpha prime.

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