## PLANCK 2011 - From the Planck Scale to the ElectroWeak Scale



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## Impact of extra particles on indirect Z' limits

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We study the possibility of relaxing the indirect limits on extra neutral vector bosons by their interplay with additional new particles. They can be systematically weakened, even below present direct bounds at colliders, by the addition of more vector bosons and/or scalars designed for this purpose. Otherwise, they appear to be robust.

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