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Gamma5 in Dimensional Regularization: The BMHV scheme at two loop

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We investigate the application of the BMHV scheme for treating Gamma5 in Dimensional Regularization. Looking at a toy example of a chiral QED, we observe that the BRST symmetry is broken in the presence of a non-anticommuting Gamma5. The symmetry breaking can be repaired by finite symmetry restoring counter terms which can be systematically calculated from insertions of evanescent operators. The renormalization procedure at two loop is exemplarily presented.

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