

Off-shell and on-shell harmonic superspaces for 6D SYM theories

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The off-shell $\mathcal{N} = (1, 0)$ and on-shell $\mathcal{N} = (1, 1)$, $6D$ harmonic superspace formalism is overviewed and its recent applications for the analysis of higher-dimension invariants in $\mathcal{N} = (1, 1)$ SYM theory are described.