## Conformal limit in \$4D\$ gauge theory

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## Abstract

We study the conformal limit of the \$4D\$ gauge theory with \$SU(2)\$ gauge group. We consider the \$4D\$ gauge theory with \$SU(2)\$ gauge group and construct the conformally invariant conformal limit of the \$4D\$ gauge theory. There are two conformally invariant conformal limits in \$4D\$ gauge theory. In the first limit, the superconformal boundary condition is satisfied. In the second limit, the conformally invariant conformal boundary condition is violated.