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Casey Lynn Kelleher* (ckelleher@princeton.edu), **Jeffrey D Streets** (jstreets@uci.edu)
and **Matthew J Gursky** (matthew.j.gursky.1@nd.edu). *A conformally invariant gap theorem
in Yang-Mills theory.*

We show a sharp conformally invariant gap theorem for Yang-Mills connections in dimension 4 by exploiting an associated Yamabe-type problem. (Received September 26, 2017)