Non-Abelian Firewall DOUGLAS SINGLETON, California State University, Fresno — A simple, closed-form solution to the YangMills field equations is presented which has a non-Abelian firewall a spherical horizon where the energy density diverges. By the gravity/gauge duality, this non-Abelian firewall implies the existence of a gravitational firewall. Gravitational firewalls have been proposed as a way of resolving the information loss paradox, but at the cost of violating the equivalence principle.

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