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John Paul Steinberger* (jpsteinb@gmail.com), 1-208 FIT Building, Tsinghua University, Beijing, 100084, Peoples Rep of China. *A new proof of the four-color theorem.*

We give a new proof of the four-color theorem by exhibiting an unavoidable set of D-reducible configurations. This settles a conjecture (first stated by Stromquist and by Appel and Haken, later reiterated by Robertson, Seymour, Sanders and Thomas) open since the 70s. (Received August 20, 2009)