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Pawel Pralat* (pralat@ryerson.ca), Department of Mathematics, Ryerson University, 350 Victoria St., Toronto, Ontario M5B 2K3, Canada. Almost all 5-regular graphs have an edge orientation in which every out-degree is either 4 or 1.

Tutte in 1966 conjectured that every 4-edge connected 5-regular graph has an edge orientation in which every out-degree is either 4 or 1. We show that the assertion of the conjecture holds asymptotically almost surely for random 5-regular graphs. Hence, the conjecture holds for almost all 4-edge connected 5-regular graphs. (Joint work with Nick Wormald.) (Received January 18, 2015)