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Karl Auinger* (karl.auinger@univie.ac.at), Fakultät für Mathematik, Universität Wien, Oskar-Morgenstern-Platz 1, Wien, A-1090. *The Ribes–Zalesskii-Theorem revisited*. Preliminary report.

A new approach to the Ribes–Zalesskii product theorem will be discussed. It can be applied to the pro- \mathfrak{F} -topology on a free group F whenever \mathfrak{F} is a formation of finite groups for which the free pro- \mathfrak{F} -groups have tree-like Cayley graphs. We find new examples of (relatively free) profinite groups having such Cayley graphs — among them some which do not have any non-trivial solvable quotients. This also leads to new examples of profinite topologies on F for which the Ribes–Zalesskii-Theorem holds. (Received January 31, 2015)