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Ievgen Bondarenko, vul.Volodymyrska 64, Kyiv, 01033, Ukraine, and **Dmytro M Savchuk***
(savchuk@usf.edu), 4202 E Fowler ave, CMC 342, Tampa, FL 33620. *Duality in reversible automata generating lamplighter type groups*. Preliminary report.

We study a class of groups generated by reversible automata modeling multiplication in the ring of formal power series. The realization of the lamplighter type groups by similar types of automata has been studied by several authors since the beginning of 2000's.

We show that in many cases the group generated by the dual automaton is again of lamplighter type and that it also acts on series in certain rational function. (Received March 18, 2017)