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Svetla Vassileva* (svassileva@math.mcgill.ca). *The conjugacy problem in wreath products is decidable in log-space.*

We show that the conjugacy problem in the restricted wreath product $A \wr B$ is decidable in log-space provided the conjugacy problems in A and B and the power problem in B are decidable in log-space. We conclude that the conjugacy problem in the wreath product of two abelian groups is decidable in log-space. (Received February 10, 2013)