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An improvement algorithm of joint resource allocation based on microcells network proportional fairness. (Chinese. English summary) [Zbl 1389.94006](#)

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Summary: To optimize maximizing system rate, we propose an improved resource allocation algorithm based on the constraint conditions of rate proportional fairness, and solve the optimal power by using Lagrange method. The results show that, compared to the traditional resource allocation algorithm of minimum proportional rate, our algorithm can reduce computational complexity and improves the system rate effectively.

MSC:

[94A05](#) Communication theory

[91B32](#) Resource and cost allocation (including fair division, apportionment, etc.)

Keywords:

[microcells](#); [resource allocation](#); [proportional fairness](#); [system rate](#)

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