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**Russell Lodge\*** (r.lodge@jacobs-university.de), **Yauhen Mikulich** and **Dierk Schleicher**.

*A combinatorial classification of postcritically finite Newton maps.*

It will be shown that every postcritically finite Newton map gives rise to a finite forward invariant graph containing all postcritical points, called the extended Newton graph. On the other hand, an extended Newton graph can be extended to a branch covering from the two-sphere to itself, and using Thurston's theorem it will be shown that this branch covering is equivalent to a Newton map. (Received September 01, 2014)