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# **Computing power series** expansions of modular forms

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(Submitted on 30 Apr 2012 (v1), last revised 30 Sep 2012 (this version, v2))

We exhibit a method to numerically compute power series expansions of modular forms on a cocompact Fuchsian group, using the explicit computation a fundamental domain and linear algebra.

Comments: 30 pages, 5 figures; small revisions suggested by referee

Subjects: **Number Theory (math.NT)** Cite as: arXiv:1205.0045 [math.NT]

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