

COMPUTATIONAL PHYSICS PAPERS IN PHYSICAL REVIEW E

Physical Review E welcomes contributions to the section on **computational physics (Section E-16)**. Appropriate papers for this section are those that describe new developments of computational methods, or substantial improvements of existing computational methods, provided they are applicable to significant physics problems. In many cases such a paper will improve its impact by explicitly demonstrating the usefulness of the described method, i.e., by applying it to some physics problem (old or new). However, it should be noted that such an application is not a necessary condition for eligibility. Rather, the requirement that “papers must contain new results in physics” should be interpreted as a requirement of novelty with respect to the method(s), the physics, or both. The application of well established standard methods to new problems in physics will also be considered in this section, but only if the paper fits into the general scope of the *Physical Review*, and cannot be classified into another existing section, which otherwise should take precedence. Since the computational physics section of *Physical Review E* is the only section in the *Physical Review* specifically targeted at computational techniques, it contains papers whose physics background is distributed over all five journals. The section thus aims to provide a general platform for the computational physics community. Highly specific information, such as listings of programs, etc., should be reserved for Supplemental Material (<http://forms.aps.org/author/supmatinstr.pdf>).

We also call your attention to our short-paper sections. Rapid Communications are intended for new results that deserve accelerated publication. Papers submitted to this section are given priority in editorial processing and production to minimize the time between receipt and publication. Brief Reports are accounts of completed research that do not warrant regular articles or the priority handling given to Rapid Communications (for example, addenda are published as Brief Reports). We emphasize, however, that all sections of *Physical Review* are judged by the same scientific standards.

We will, of course, be happy to answer specific questions concerning the appropriateness of particular articles. Please feel free to contact us at <http://pre.aps.org>. For further information please visit <http://publish.aps.org>.