PHYSICAL REVIEW SPECIAL TOPICS – ACCELERATORS AND BEAMS

The American Physical Society is pleased to publish Physical Review Special Topics – Accelerators and Beams, a peer-reviewed electronic journal. This is the first in what will eventually become a series of Special Topics journals. The journal will be distributed without charge, and for the foreseeable future there will be no submittal or publication charges.

The introduction of Physical Review Special Topics – Accelerators and Beams was the result of extensive study by The American Physical Society and its Division of the Physics of Beams, who recognized the need for a wide ranging and widely distributed peer reviewed journal for their field. While some papers on particle accelerators appear in Physical Review Letters and Physical Review E, results on work in this field of a more technical character usually are not appropriate for those journals, and, as a result, the accelerator literature was fragmented among many journals. Hence PRST-AB.

The criteria for acceptance of articles includes the high scholarly and technical standards of our other Physical Review journals. The scope of the journal covers the full range of accelerator science and technology: subsystem and component technologies; beam dynamics; applications of accelerators; and design, operation, and improvement of accelerators used in science and industry. This includes high energy and nuclear physics, synchrotron radiation production, spallation neutron sources, medical therapy, and intense beam applications, among others.

The journal is completely electronic with electronic submission, refereeing, publication, and with the archival record being an online journal. Therefore the journal uses submission procedures which differ from the other Physical Review journals, with the goal of making use of the authors’ keystrokes for automatically filling a manuscript database, generating article wrappers that include links to works referred to in the manuscript, and in final production of a well-formatted electronic document. Meeting this goal means that submissions are restricted to a limited number of standardized formats. Since Microsoft (MS) WORD and LaTeX have been dominant as the word-processing tools for authoring manuscripts prepared for recent accelerator conferences, standardized templates and macros for these two programs have been developed and should be used by authors.

For more information regarding the journal, please visit it at http://prst-ab.aps.org/