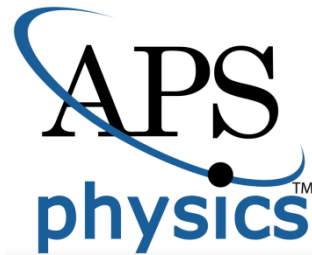


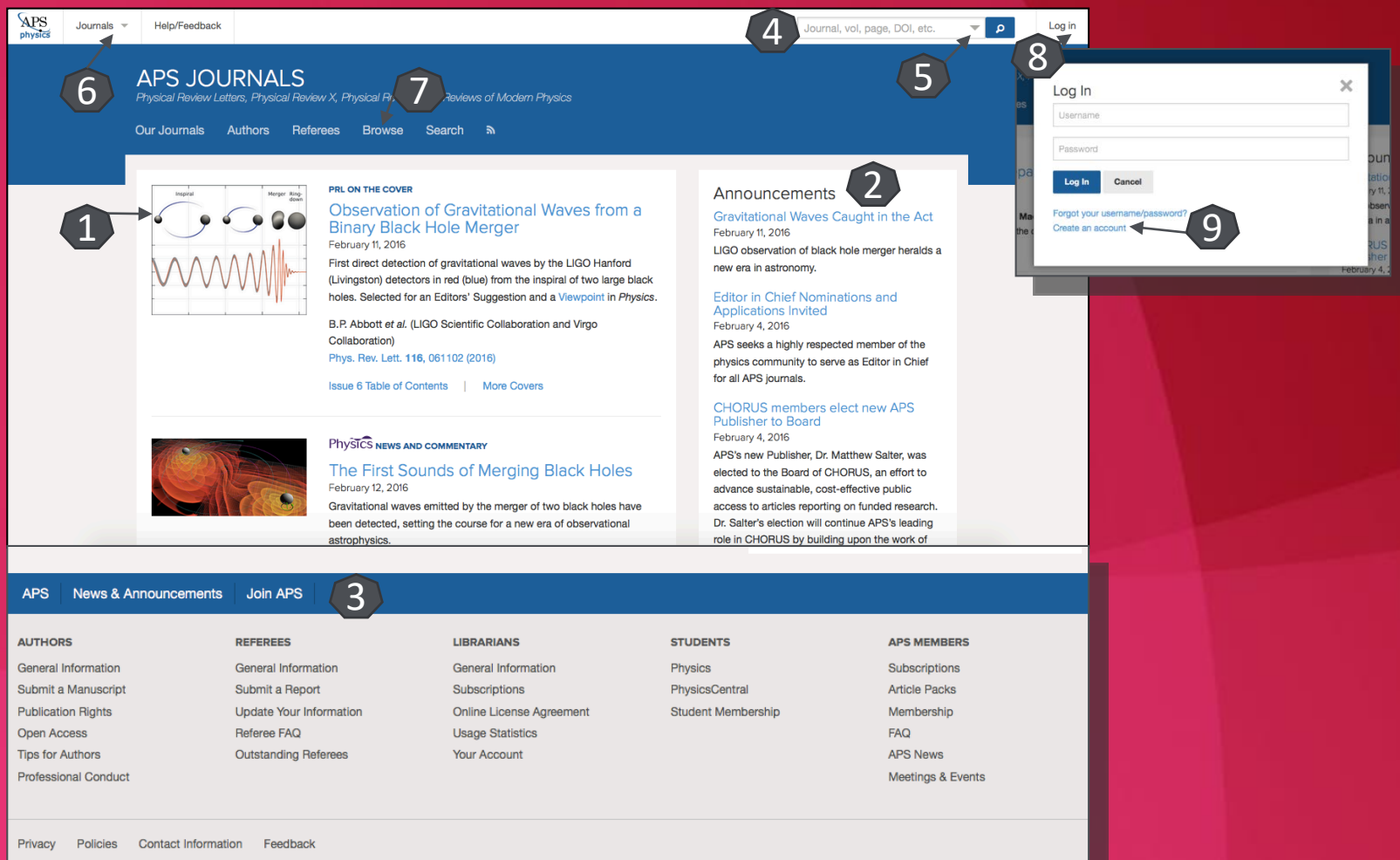


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Pagina principală

- ❑ În pagina principală aveți informații despre cele mai noi articole din domeniu 1, precum și anunțuri despre descoperirile aferente acestuia 2. În partea de jos a paginii 3 găsiți informațiile grupate pentru următoarele categorii de utilizatori: autori, bibliotecari, studenți, membri APS.
- ❑ Puteți iniția căutări de documente, folosind motorul de căutare al bazei de date 4, în modul simplu sau în modul avansat 5. De asemenea, puteți accesa titlurile revistelor din tab-ul „Journals” 6 sau din tab-ul „Browse” 7.
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The screenshot shows the APS Journals homepage with the following elements highlighted by numbered callouts:

- 1:** Main article section titled "PRL ON THE COVER" featuring "Observation of Gravitational Waves from a Binary Black Hole Merger".
- 2:** "Announcements" section with articles like "Gravitational Waves Caught in the Act" and "Editor in Chief Nominations and Applications Invited".
- 3:** Footer navigation menu with categories: AUTHORS, REFEREES, LIBRARIANS, STUDENTS, and APS MEMBERS.
- 4:** Search bar at the top right with the placeholder text "Journal, vol, page, DOI, etc.".
- 5:** Search mode selector (Simple/Advanced) next to the search bar.
- 6:** "Journals" dropdown menu in the top left navigation bar.
- 7:** "Browse" link in the top navigation bar.
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- 9:** "Create an account" link in the "Log In" modal window.

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Pagina dedicată articolului

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Pulse-by-pulse multi-beam-line operation for x-ray free-electron lasers

Toru Hara, Kenji Fukami, Takahiro Inagaki, Hideaki Kawaguchi, Ryota Kinjo, Chikara Kondo, Yuji Otake, Yasuyuki Tajiri, Hideki Takebe, Kazuaki Togawa, Tatsuya Yoshino, Hitoshi Tanaka, and Tetsuya Ishikawa
Phys. Rev. Accel. Beams **19**, 020703 – Published 16 February 2016

PDF HTML Export Citation

ABSTRACT

The parallel operation of plural undulator beam lines is an important means of improving the efficiency and usability of x-ray free-electron laser facilities. After the installation of a second undulator beam line (BL2) at SPring-8 Angstrom compact free-electron laser (SACLA), pulse-by-pulse switching between two beam lines was tested using kicker and dc twin-septum magnets. To maintain a compact size, all undulator beam lines at SACLA are designed to be placed within the same undulator hall located downstream of the accelerator. In order to ensure broad tunability of the laser wavelength, the electron bunches are accelerated to different beam energies optimized for the wavelengths of each beam line. In the demonstration, the 30 Hz electron beam was alternately deflected to two beam lines and simultaneous lasing was achieved with 15 Hz at each beam line. Since the electron beam was deflected twice by 3° in a dogleg to BL2, the coherent synchrotron radiation (CSR) effects became non-negligible. Currently in a wavelength range of 4–10 keV, a laser pulse energy of 100–150 μJ can be obtained with a reduced peak current of around 1 kA by alleviating the CSR effects. This paper reports the results and operational issues related to the multi-beam-line operation of SACLA.

5 More
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AUTHORS & AFFILIATIONS

Toru Hara^{1,*}, Kenji Fukami², Takahiro Inagaki¹, Hideaki Kawaguchi³, Ryota Kinjo¹, Chikara Kondo¹, Yuji Otake¹, Yasuyuki Tajiri⁴, Hideki Takebe^{1,†}, Kazuaki Togawa¹, Tatsuya Yoshino³, Hitoshi Tanaka¹, and Tetsuya Ishikawa¹

¹RIKEN SPring-8 Center, Kouto 1-1-1, Sayo, Hyogo 679-5148, Japan
²Japan Synchrotron Radiation Research Institute, Kouto 1-1-1, Sayo, Hyogo 679-5198, Japan
³Nichicon Kusatsu Corporation, Yagura 2-3-1, Kusatsu, Shiga 525-0053, Japan
⁴SPring-8 Service Co., Ltd., Kouto 1-20-5, Shingu-cho, Tatsuno, Hyogo 679-5165, Japan

*toru@spring8.or.jp
†Present address: Okinawa Institute of Science and Technology.

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