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Building a National Digital Library for Computational Physics Education at All Levels

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Over the past dozen years we have produced some of the most widely used interactive computer-based curricular materials for the teaching of introductory and advanced physics courses. These materials are now hosted on and distributed from the Open Source Physics (OSP) Collection of the ComPADRE National Science Digital Library. This talk outlines the tripartite integration of ComPADRE with the Easy Java Simulations modeling and authoring tool and the OSP code library. The pedagogical and technical features of this learning platform and our current efforts to align this material with United States national and state standards for science teaching are described. The Open Source Physics Collection is available on the: <http://www.compadre.org/osp/> Partial funding for this work was obtained through NSF grants DUE-0442581 and DUE-0937731.

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